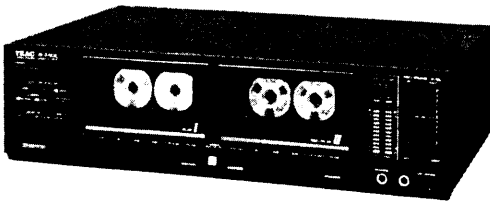


TEAC®



SERVICE MANUAL

W-440C

Stereo Double Cassette Deck

CAUTION

△ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

注 意

△印は安全重要部品です。交換する時は必ずティアック指定の部品を使用してください。

* Noise Reduction System manufactured under license from Dolby Laboratories Licensing corporation. 'Dolby' and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

- ドルビーノイズリダクションシステムは、ドルビー研究所からの実施権に基づき製造されています。
- ドルビー及びDDは、ドルビー研究所の登録商標です。

1 SPECIFICATIONS AND SERVICE DATA

仕様及びサービス・データ

SPECIFICATIONS

Track System	4-track, 2-channel stereo
Heads	PLAY I: Playback x 1 REC/PLAY II: Erase x 1, Record/Playback x 1
Type of Tape	Cassette tape, C-60 and C-90
Tape Speed	4.8 cm/s (1-7/8 ips), 9.5 cm/s (3-3/4 ips); Hi speed Dubbing)
Input (level and impedance)	
MIC:	Specified input level: -57 dB (1.09 mV)/5 kohms Min. input level: -67 dB (346 μ V)
LINE IN:	Specified input level: -9 dB (275 mV)/50 kohms Min. input level: -19 dB (86.9mV)
Output (level and load impedance)	
OUTPUT:	Spec. output level: -2 dB (615 mV)/50 kohms
PHONES:	Spec. output level: -18 dB (97.5mV)/8 ohms
Equalization	
METAL:	3180 μ s + 70 μ s
CrO ₂ :	3180 μ s + 70 μ s
NORMAL:	3180 μ s + 120 μ s
Head Configuration	
	1/2-track, 1-channel erase head 1/4-track, 2-channel record/playback head
Motor	PLAY I: 1 DC servo motor, REC/PLAY II: 1 DC servo motor
Bias Frequency	100 kHz
Operation position	Horizontal
Power Requirements	
	100/120/220/240 V AC, 50/60 Hz (General Export Model)
	120 V AC, 60 Hz (U.S.A./Canada)
	220 V AC, 50 Hz (Europe)
	240 V AC, 50 Hz (U.K./Australia)
Power Consumption	20 W
Weight	5.0 kg (11lbs.) net
Dimensions	

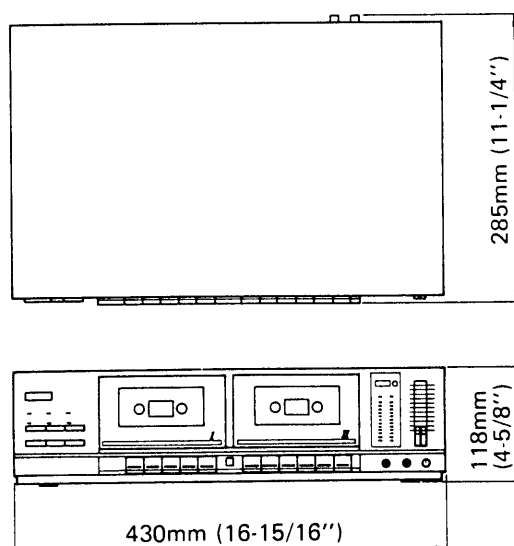


Fig. 1-1

SERVICE DATA

MECHANICAL

Tape Speed Deviation	3,000 Hz +90, -60 Hz, 6000 Hz +180, -120 Hz
Tape Speed Drift	45Hz (LOW SPEED), 90Hz (HIGH SPEED)
Wow and Flutter	Playback: 0.12% (WRMS)
Pinch Roller Pressure	250 g to 470 g (8.8 oz to 16.5 oz)
Reel Torque	
Take-up:	35 to 75 g-cm (0.49 to 1.04 oz-inch)
Supply:	2 to 6 g-cm (0.028 to 0.083 oz-inch)
F.F.:	70 to 160 g-cm (0.97 to 2.22 oz-inch)
REW:	70 to 160 g-cm (0.97 to 2.22 oz-inch)
Fast Wind Time	105 $\pm$ 15 sec. for MTT-551 (C-60)
Auto End-stop Time	6 sec. or less

ELECTRICAL

Frequency Response

See Figs. 5-8 to 5-11.

Signal-to-noise Ratio

Playback NORMAL: 46 dB min.

Record/playback

METAL, CrO₂: 46 dB min.

NORMAL: 45 dB min.

Erase Efficiency

65 dB min. at 1 kHz (measured with input 10 dB higher than the specified input level).

Channel Separation 30 dB min. at 1 kHz

Adjacent Track Crosstalk 40 dB min. at 125 Hz

Total Harmonic Distortion 2.0% or less with NORMAL, CrO₂, METAL

NOTES:

Improvements may result in SPECIFICATIONS AND SERVICE DATA changes.

Value of "dB" in the data refers to 0 dB (0.775 V), except where Specified.

注

1. 仕様およびサービス・データは改善のため、予告なく変更することがあります。

2. 本マニュアルの 0 dB は 0.775 V を基準としています。

3 PARTS LOCATION

部品配置図

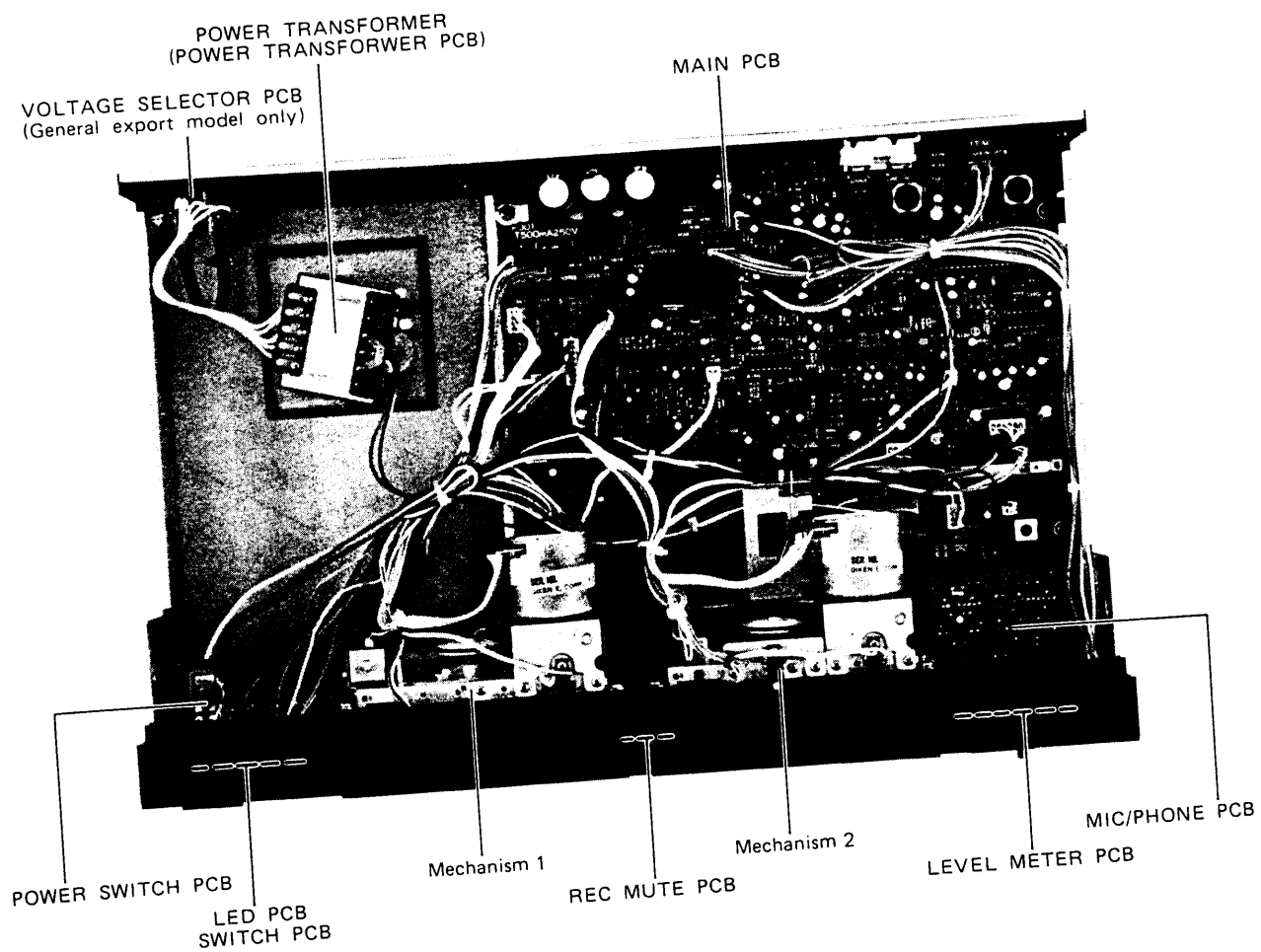


Fig. 3-1 Top view
上面図

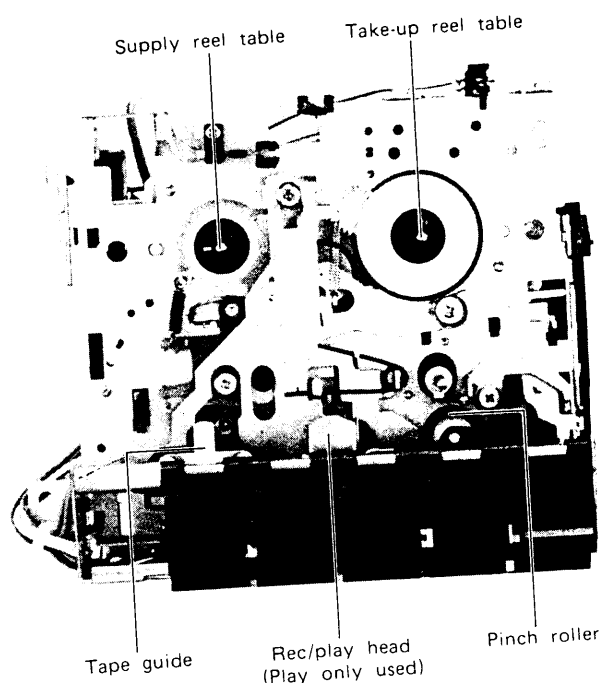


Fig. 3-2 Transport front view (PLAY I)
トランスポート前面図

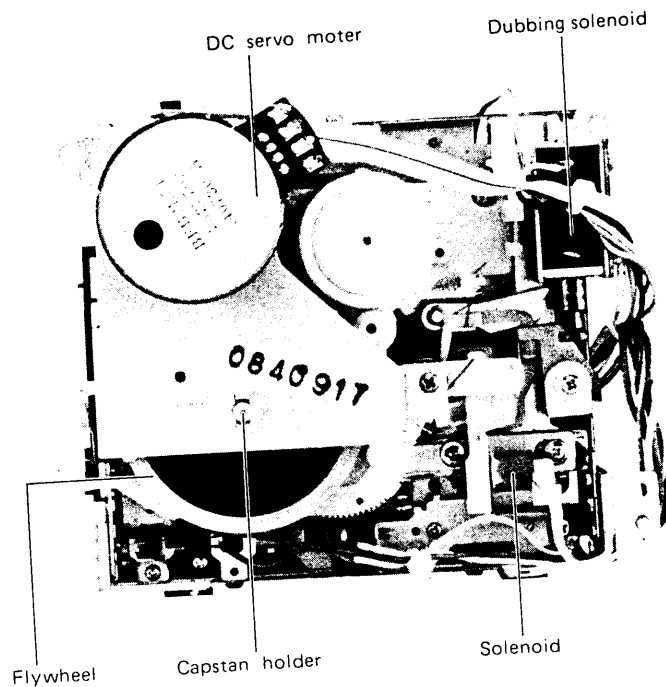


Fig. 3-3 Transport rear view (PLAY I)
トランスポート後面図

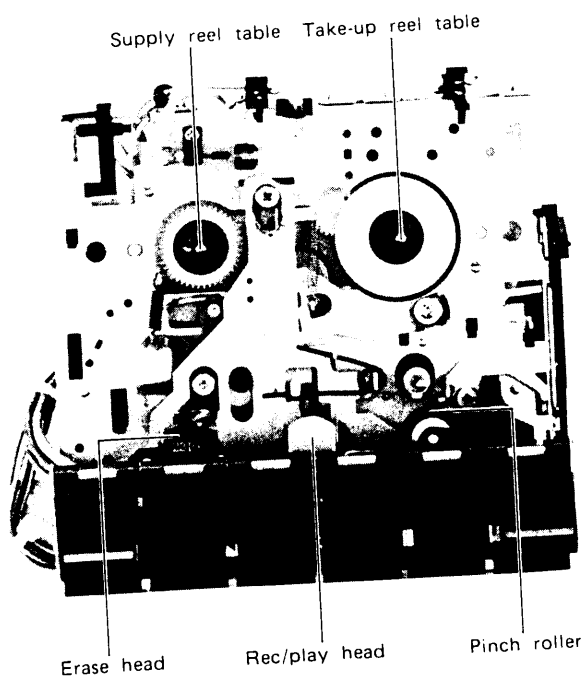


Fig. 3-4 Transport front view (REC/PLAY II)
トランスポート前面図

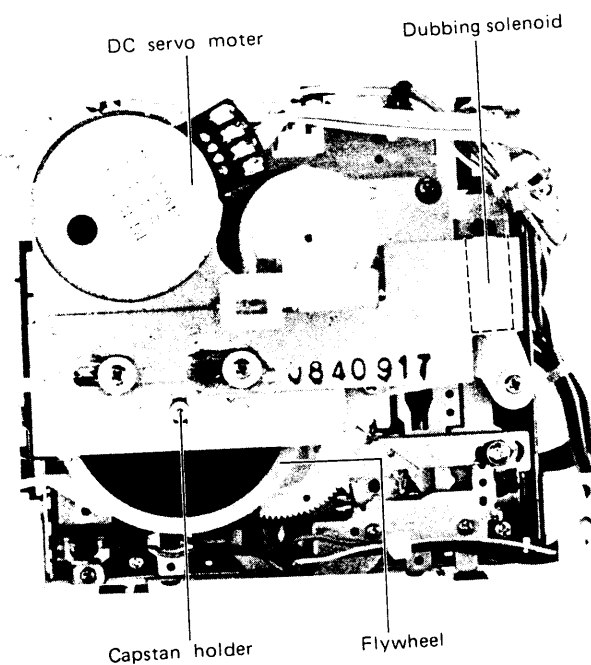


Fig. 3-5 Transport rear view (REC/PLAY II)
トランスポート後面図

4 MECHANICAL ADJUSTMENT AND CHECKS

機構部の調整と確認

4-1 WOW AND FLUTTER

Note: This measurement should be made at the beginning, middle, and the end of the tape.

PLAYBACK

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the reading on the wow-and-flutter meter is within 0.12% (WRMS).

4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Simply press POWER switch to ON to rotate the motor, then continue the motor rotation for approx. 1 minute for warm-up.
3. As soon as the warm-up finishes, load a TEAC MTT-111 test tape with a 3,000 Hz test tone and play the end of the test tape.
4. Adjust each variable resistor to get the following figures.

* Press both HI SPEED and SYNC switches, then short Q510's base to ground to get the double tape speed (HIGH speed).

	Adjustment point		Adjustment value
PLAY I	HIGH speed	R53	6,020 ~ 6,040
	LOW speed	R54	3,010 ~ 3,020
REC/PLAY II	HIGH speed	R55	6,000 ~ 6,020
	LOW speed	R56	3,000 ~ 3,010

* At first, adjust HIGH tape speed.

5. In play mode, check that the following figures are obtained at the beginning and at the end of the tape.

	LOW speed	HIGH speed
Speed deviation	3000 Hz +90, -60 Hz	6000 Hz +180, -120 Hz
Speed drifting	Within 45 Hz	Within 90 Hz

4-1 ワウ・フラッタ

注：テープの巻始め、中間、巻終りで測定する。

1) 再生

1. 図4-1のようにワウ・フラッタ・メータを接続し、
2. テストテープMTT-111を再生する。
3. ワウ・フラッタ値：0.12%WRMS(聴感補正) 以内であることを確認する。

4-2 テープスピード

1. 図4-1のように周波数カウンタを接続する。
2. 電源を入れ、約1分間ウォーミング・アップしたのち
3. テストテープMTT-111(3KHZ)の巻終り部を再生する。
4. 周波数値が下記特性となるよう、各調整VRを調整する。

調整箇所			調整値(Hz)
PLAY I	ハイスピード	R53	6,020 ~ 6,040
	ロースピード	R54	3,010 ~ 3,020
REC/PLAY II	ハイスピード	R55	6,000 ~ 6,020
	ロースピード	R56	3,000 ~ 3,010

*：倍速(ハイスピード)にする場合は、[DUBBING]スイッチの“HI SPEED”および“SYNC”を押してINにし、Q510のベースをアースに落して下さい。(REC/PLAY II, PLAY I 双方が倍速になります。)

- *：調整は必ずハイスピード→ロースピードの順に行なうこと。
- 5 巻始めから巻終りまで再生し、速度偏差および変動巾を確認する。

	ロースピード	ハイスピード
速度偏差	3,000Hz +90, -60Hz	6,000Hz +180, -120Hz
変動幅	45Hz以内	90Hz以内

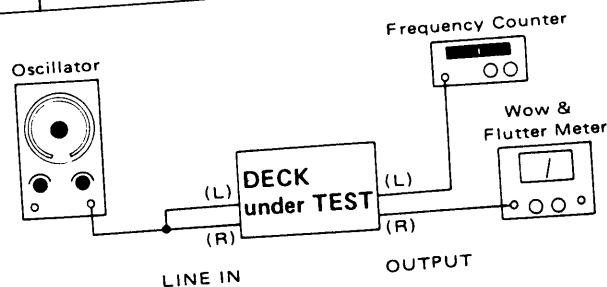


Fig. 4-1

4-3 REEL TORQUE

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values:

Specifications:

Take-up: 35 ~ 75 g·cm (0.49 ~ 1.04 oz·inch)
 Supply: 2 ~ 6 g·cm (0.028 ~ 0.083 oz·inch)
 F.F./REW: 70 ~ 160 g·cm (0.97 ~ 2.2 oz·inch)

4-3 リール・トルク

1. カセット型トルク・メータによる測定値が下表の範囲内であることを確認する。

テイクアップ・トルク： 35 ~ 75 g·cm
 バックテンション・トルク： 2 ~ 6 g·cm
 早送り/巻戻しトルク： 70 ~ 160 g·cm

4-4 PINCH ROLLER PRESSURE

Hook a spring scale to the pinch roller arm, and read the scale, by pulling down words, when the pinch roller just stops in the play mode, the reading should be 250 g ~ 470 g (8.8 oz ~ 16.5 oz).

4-5 CAPSTAN ASS'Y THRUST CHECK

Check that the capstan fly wheel is pressed to the capstan housing side by the capstan holder.

4-6 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.

Oil: TEAC spindle oil (from TEAC TZ-255 oil kit),
Mobil D.T.E. Oil Light, or equivalent

Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of the flywheel, then insert the shaft into the capstan housing.

4-4 ピンチ・ローラ圧着力

1. ピンチ・ローラアームにバネ秤を掛け、再生モードにする。
秤を下方に引いて、ピンチ・ローラの回転が停止する時の値を読む：250g～470g以内であること。

4-5 キャプスタン・シャフト・スラスト

1. キャプスタン・フライホイールがキャプスタン・ホルダによって手前側に押されていることを確認する。

4-6 注油

注油は部品が交換される時のみ必要です。下記指定のオイルを使用すること。

オイル：TEACスピンドルオイル(TEACTZ-255オイルキットより)

モービルD・T・Eオイル・ライト又は相当品

1. フライホイール軸の先端から約1/3下った軸面へ、注油器にてオイル1滴を注油後、フライホイール軸をキャプスタン・ハウジングへそう入する。

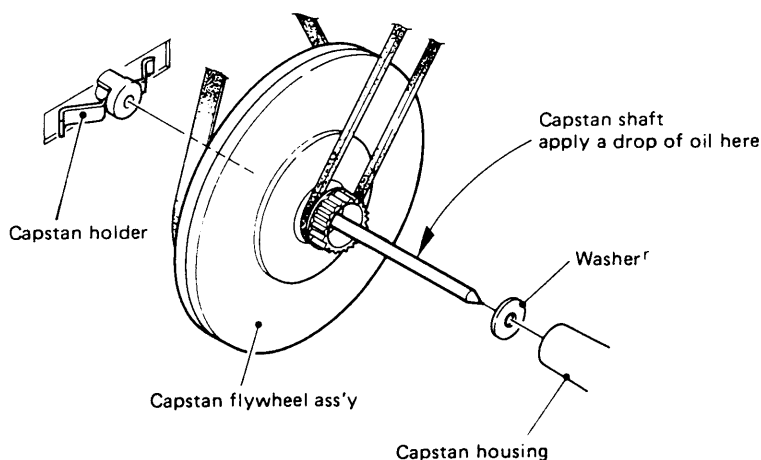


Fig. 4-2

4-7 VOLTAGE CONVERSION (General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the voltage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

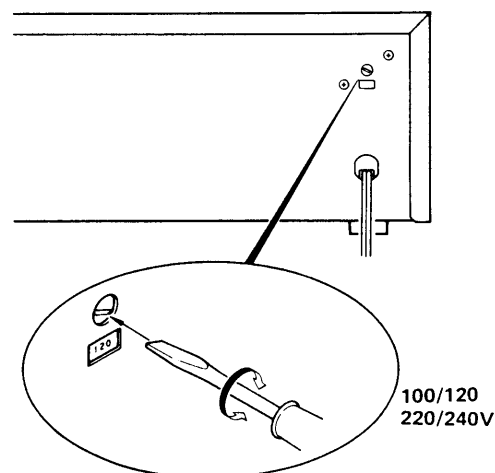


Fig. 4-3

5 ELECTRICAL ADJUSTMENT AND CHECKS

アンプ部の調整と確認

PRECAUTIONS

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. and test point designations indicate L-ch/R-ch. (Example: R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.

注意

1. アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行なってください。
2. 特に指定の無い限り、調整はLch, Rchの順序で行なって下さい。
尚R11/R21のように記されている回路番号はLch/Rchを示します。
3. $0\text{dB} = 0.775\text{V}$
4. 測定に使用するレベル計の入カインピーダンスは $1\text{M}\Omega$ 以上のものを使用してください。
5. 本機はテープ・セレクト自動検出機構になっていますので、テスト・テープは必ずテープ・ポジション検出孔のあるものを使用して下さい

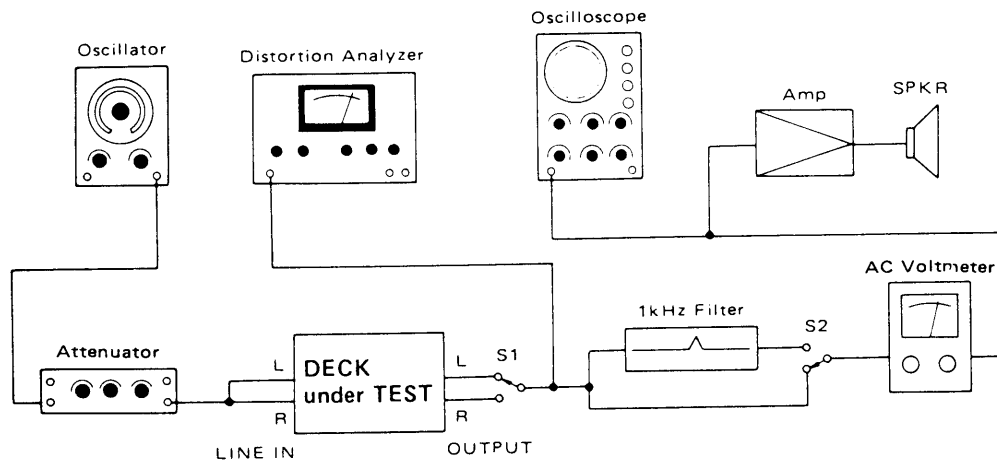


Fig. 5-1 Basic test setup

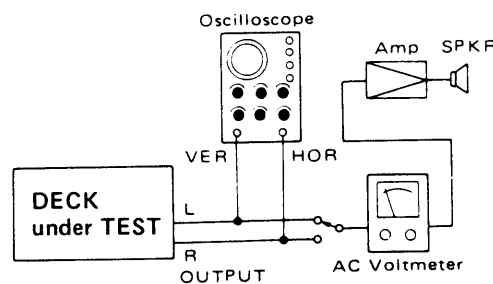


Fig. 5-2 Test setup for azimuth check

5-1 ADJUSTMENTS AND TEST POINT LOCATIONS

調整及び測定箇所

Function 調整機能	Adjustments 調整箇所	Test points (Measuring point) 測定箇所
Specified output level 規定出力レベル	R11/R21 R13/R23	T.P11/T.P21 (DOLBY)
PB Frequency Response 再生周波数特性	R12/R22	OUTPUT terminals
Bias OSC バイアス発振周波数	L501	R509
Record bias 録音バイアス	R51/R61	TP13/TP23
Record level 録音レベル	R52/R62	OUTPUT terminals
REC/PLAY Frequency Response 録再周波数特性	R51/R61	OUTPUT terminals

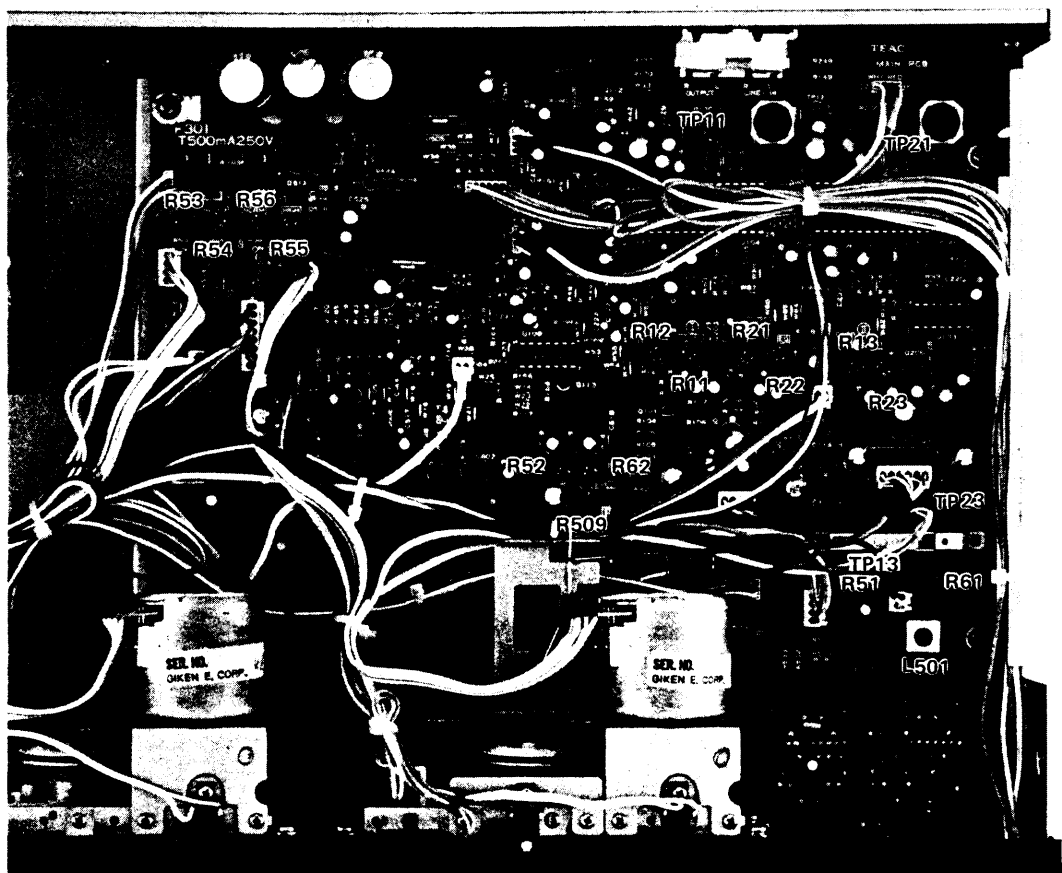


Fig. 5-3

Deck settings:
DOLBY NR sw: OUT

TEAC test tapes:
MTT-150: For Dolby level calibration
MTT-256: For playback frequency response
check for NORMAL
MTT-356: For METAL and CrO₂
MTT-551: For S/N check with NORMAL

5-2 PLAYBACK PERFORMANCE 再生系

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT 測定箇所	RESULT 調整値	REMARKS 備考
1. REC/PLAY head azimuth 録再ヘッド・アジマス	Connection: Fig. 5-2 接続	MTT-150	Check チェック	OUTPUT: Phase: within 45° 位相 45°以内		Refer to Fig. 5-5
		MTT-256 (10 kHz)	Azimuth screw of R/P head (Fig. 5-4) アジマス調整ネジ	OUTPUT: Max. output at L-& R-ch's (on VTVM) L, R 共 最大出力		
2. Specified output level 規定出力レベル	—	MTT-150	R11/R21 (Play I) R13/R23 (Rec/Play II)	T.P11/T.P12 (DOLBY): 387.5mV (-6 dB)		See page 9
	—	MTT-150	Check チェック	OUTPUT: -2 dB ± 1.5 dB (518 to 731mV)		Spec. output level 規定出力レベル
3. Frequency response 周波数特性	NORMAL	MTT-256	R12/R22	OUTPUT: Fig. 5-8		
	CrO ₂	MTT-356	Check チェック	OUTPUT: Fig. 5-8		
4. Signal-to-noise ratio S/N S/N比	Tape: MTT-551 Play mode	Fully erased MTT-551 tape (Use bulk tape eraser) バルク・イレーサーで充 分消磁された MTT-551	Check チェック	OUTPUT: 46 dB min.		Ratio of spec. output of -2 dB to noise 基準信号レベルは規 定出力(-2dB)レベル

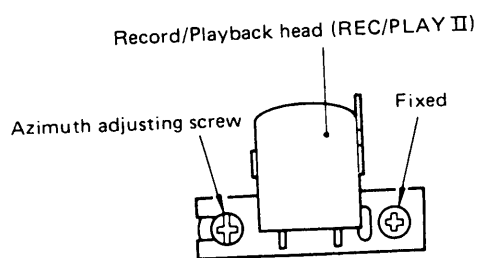


Fig. 5-4

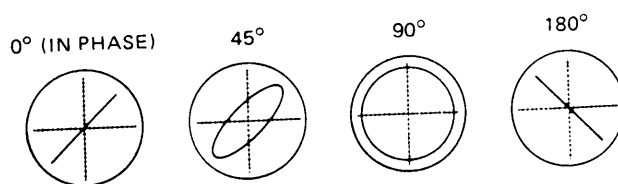


Fig. 5-5

5-3 MONITOR PERFORMANCE モニタ系

Deck settings:
RECORD-PAUSE mode
DOLBY NR sw: OUT

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT 測定箇所	RESULT 調整値	REMARKS 備考
5. Min. input level 最小入力レベル	MIC MIXING cont. MAX RECORDING LEVEL cont. (L/R): MAX MIC MIXINGつまみ最大 RECORD LEVELつまみ(L/R) 最大	MIC: 400Hz/−67 dB (346μV) LINE IN: 400Hz/ −19 dB (86.9mV)	Check チェック	OUTPUT: −2 dB ± 3 dB (436mV to 869mV)		MIC min. input level LINE min. input level
6. Specified LINE input level LINE規定入力レベル	—	LINE IN: 400Hz/−9 dB (275mV)	RECORDING LEVEL cont. (L/R)	T.P11/T.P12 (DOLBY): 387.5mV (−6 dB)		Refer to Fig. 5-7
	—	LINE IN: 400Hz/−9 dB (275mV)	Check チェック	OUTPUT: −2 dB ± 1 dB (548mV to 690mV)		
IMPORTANT: Do not change the setting of the RECORD LEVEL controls after establishing their setting as above. 注意：以降の調整においてRECORD LEVELつまみを動かさないこと。						
7. Peak level display ピークレベル指示	—	LINE IN: 400Hz/−9 dB (275mV)	Check チェック	PEAK LEVEL DISPLAY: 0 dB (775mV)		
8. Headphone output level ヘッドホン出力レベル	Connection: Fig. 5-6 接続	LINE IN: 400Hz/−9 dB (275mV)	Check チェック	PHONES: −18 dB ± 3 dB (69mV to 138mV)		8 ohm load 8Ω負荷

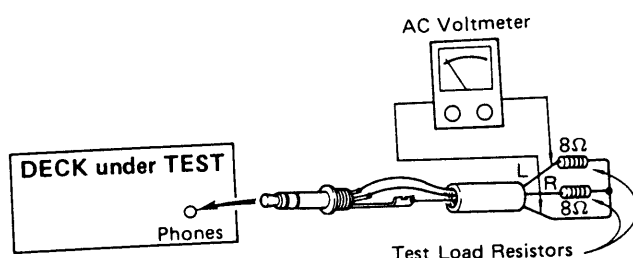


Fig. 5-6 Test setup for headphone check

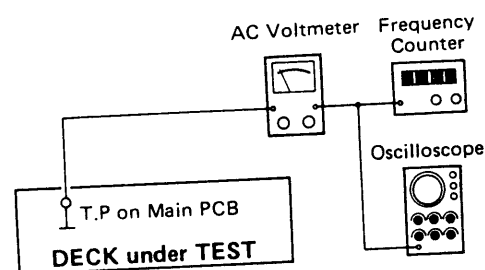


Fig. 5-7 Test setup for bias adjustment

5.4 RECORDING PERFORMANCE 録音系

Deck settings:
DOLBY NR sw: OUT
RECORDING LEVEL cont. (L/R): Specified position (item 6)
6項の規定位置

TEAC recording test tapes:
MTT-5072: For METAL
MTT-5061: For CrO₂
MTT-551: For NORMAL

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT 測定箇所	RESULT 調整値	REMARKS 備考
9. Bias osc バイアス周波数の調整	Connection: Fig. 5-7 接続 Record-pause mode	LINE IN: No signal 無信号	L501	R509	100kHz on frequency counter	Specified bias frequency 規定バイアス周波数
10. Record bias 録音バイアス	Tape: MTT-551 Record-pause mode	No signal 無信号	R51/R61	T.P13/T.P23:	1.9mV	Repeat if the result is un- satisfactory 不十分なら録再を 繰返し調整
	Tape: MTT-551 Rec/play mode	LINE IN: 400Hz & 10kHz alternately/-42 dB (6.15mV) Record and reproduce them. 両信号を交互に録音し、 再生する。	R51/R61	OUTPUT: Nearly equal level at both frequencies 両周波数の録再出力差 が同程度になるよう調 整		
11. Record level 録音レベル	Tape: MTT-551	LINE IN: 400Hz/-12 dB (195mV) Record and reproduce them. 信号を録音し、再生する	R52/R62	OUTPUT: -5dB (436mV)		
	Tape: MTT-5061 Tape: MTT-5072		Check チェック	OUTPUT: -5dB ± 2.0dB (346mV to 548mV)		
12. Total harmonic distortion 総合歪率	Tape: MTT-5072 Tape: MTT-5061 Tape: MTT-551 Rec/Play mode	LINE IN: 400Hz/-12 dB (195mV)	Check チェック	OUTPUT: 2.0% or less with CrO ₂ , NORMAL METAL		
13. Frequency response 周波数特性	Tape: MTT-5072 Tape: MTT-5061 Tape: MTT-551	LINE IN: Required signal/ -42 dB (6.15mV)	Check チェック	OUTPUT: Fig. 5-9 to 5-11		If out of spec., recheck #10
14. Signal-to-noise ratio S/N比	Tape: MTT-5072 Tape: MTT-5061 Tape: MTT-551	LINE IN: 1kHz/-9 dB (275mV) ↓ no signal	Check チェック	OUTPUT: 45 dB min. [METAL, CrO ₂] 45dB min. [NORMAL]		Ratio of specified output of -2dB to noise 基準信号レベルは規 定出力(-2dB)レベル
15. Erase efficiency 消去効果	Connection is same as in Fig. 5-1, but engage 1-kHz filter. Record a 1-kHz signal. Rewind tape to midpoint of recorded portion. Erase the recorded portion with no input signal. Find the difference between the 1-kHz portion and the "no-signal" portion. 接続Fig. 5-1. 1kHz B.P.F.使用、1kHz信号を録音後中間まで巻戻し、1部を消去、未消去部分と消去部分の1kHz出力レベル差を測定。					
	Tape: MTT-5072	LINE IN: 1kHz/+1 dB (0.869V) ↓ no signal	Check チェック	OUTPUT: 65 dB min. ratio		Ref. output level: +8dB (1.95V) 基準レベル+8dB
16. Channel separation チャンネル・ セパレーション	● Connection: Fig. 5-1, but do not connect LINE IN (R), and engage 1-kHz filter. ● Set the deck to record mode. Find the difference between the 1-kHz recorded portion (L-ch) and the "no signal" portion (R-ch). R-ch 無接続、1kHz B.P.F.使用、1kHz録音部分(L-ch)と無信号録音(R-ch)の1kHz再生出力レベルの差を測定。					
	Tape: MTT-5072 (METAL)	LINE IN: L-ch 1kHz/-9 dB (275mV) R-ch No signal 無信号	Check チェック	OUTPUT: 30 dB min. ratio		

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT 測定箇所	RESULT 調整値	REMARKS 備考
17. Adjacent track crosstalk トラック間クロストーク	● Connection: Fig. 5-1, but do not connect LINE IN (L) and OUTPUT (L). ● Record a 125-Hz signal on R-ch and note output level. Invert tape and play R-ch track. Check leakage level against the output reference of previously recorded portion. L-ch 無接続. R-chに125Hzを録音し、その再生出力を基準レベルとする。次にテープを反転し、再生したときのR-ch出力レベルとの差を測定。					
	Tape: MTT-5072	LINE IN: L-ch No signal 無信号 R-ch 125Hz/-9 dB (275mV)	Check チェック	OUTPUT: 40dB min. ratio		
18. REC MUTE function REC MUTE効果	Connection: Fig. 5-1, but engage 1-kHz filter. Record a 1-kHz signal. Push REC MUTE button for several seconds. (At this time, make sure LED lights). Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion. 1kHz B.P.F.使用. 1kHz信号を録音し、途中REC MUTE鈕を押し無信号部を作る。そのテープを再生し、録音部と無信号部の出力レベル差を測定。					
	(REC/PLAY II) Tape: MTT-5072	LINE IN: 1kHz/+1dB (0.869mV) ↓ no signal	Check チェック	OUTPUT: 60 dB min. ratio		Ref. output level: +8dB (1.95V)
19. DOLBY NR effect (B-type) ドルビーNR効果 (Bタイプ)	Record a 1-kHz signal with DOLBY NR switch in OUT. Play this portion with DOLBY NR switch set to OUT and IN. (Set ☐ B/ ☐ C Switch on V-360C to ☐ B(☐)). Obtain the difference in output level between OUT and IN positions. Repeat the above process using a 10-kHz signal. DOLBY NRスイッチをOUTにして1kHzを録音する。次にこれを再生し、スイッチをOUT→IN(DOLBY NRのB/C切換スイッチは ☐ B位置にしておく)					
	Tape: MTT-5072	LINE IN: 1 kHz/-29 dB (27.5mV)	Check チェック	OUTPUT: Variation 3 dB ~ 8 dB		
	Tape: MTT-5072	LINE IN: 10kHz/-39 dB (8.69mV)	Check チェック	OUTPUT: Variation 8 dB ~ 12dB		
20. DOLBY NR effect (C-type) ドルビーNR効果 (Cタイプ)	Repeat the same procedure above, except see the DOLBY NR ☐ B/ ☐ C switch is set to ☐ C. 測定法, 上と同じ、但しDOLBY NRのB/C切換スイッチは ☐ Cの位置にしておく。					
	Tape: MTT-5072	LINE IN: 1 kHz/-39 dB (8.69mV)	Check チェック	OUTPUT: Variation 16 dB ~ 20 dB		
	Tape: MTT-5072	LINE IN: 10kHz/-49 dB (2.75mV)	Check チェック	OUTPUT: Variation 16 dB ~ 20 dB		

5-5 FREQUENCY RESPONSE 周波数特性

5-5-1 PLAYBACK

Tape : MTT-256 (NORMAL)
Tape : MTT-356 (CrO₂/METAL)

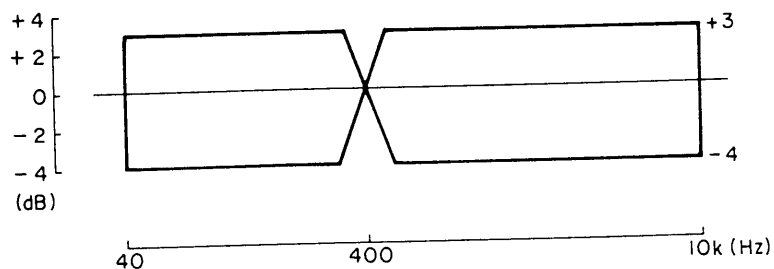


Fig. 5-8 Playback frequency response

5-5-2 OVERALL

Tape : MTT-551 (NORMAL)
Tape : MTT-5061 (CrO₂)
Tape : MTT-5072 (METAL)

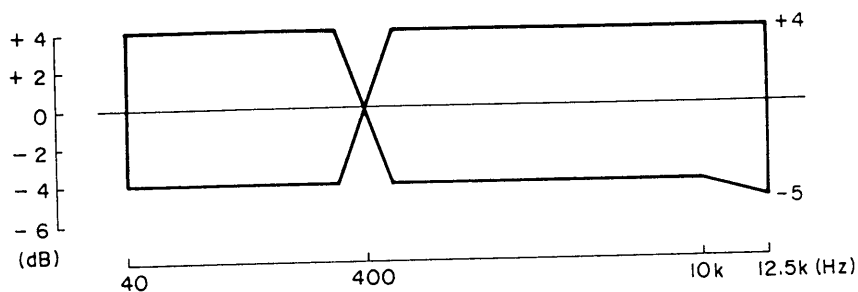


Fig. 5-9 Overall frequency response (Dolby NR: OUT)

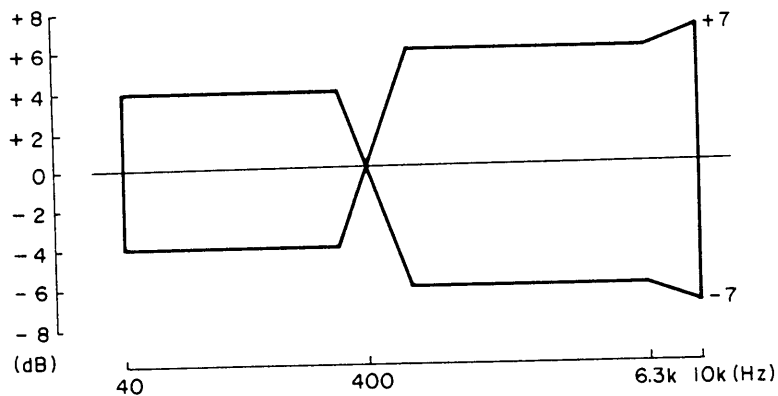


Fig. 5-10 Overall frequency response (Dolby NR[B/C]:IN)

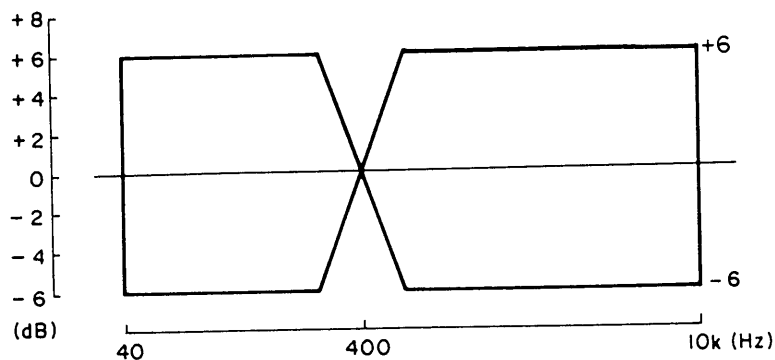
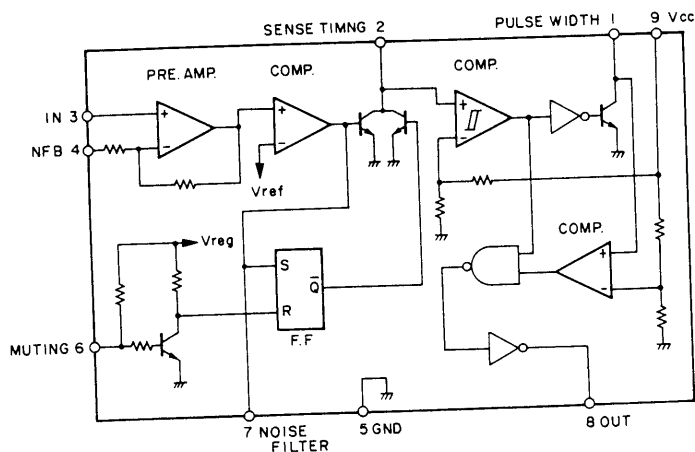


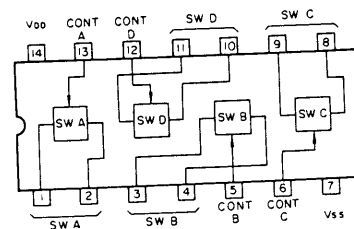
Fig. 5-11 Overall frequency response (Dubbing: Low/High speed)

IC BLOCK DIAGRAM

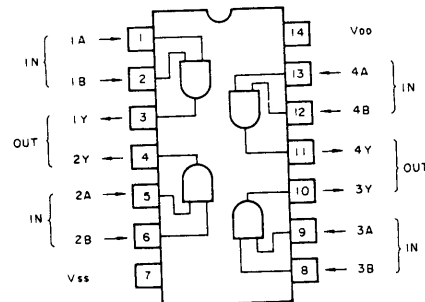
U506



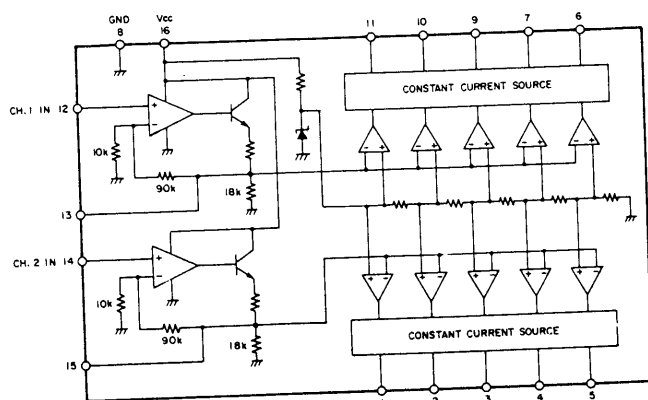
U103/U109



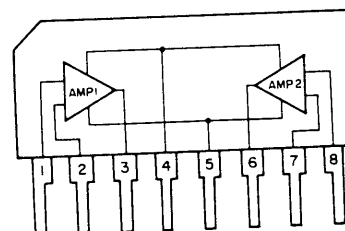
U504



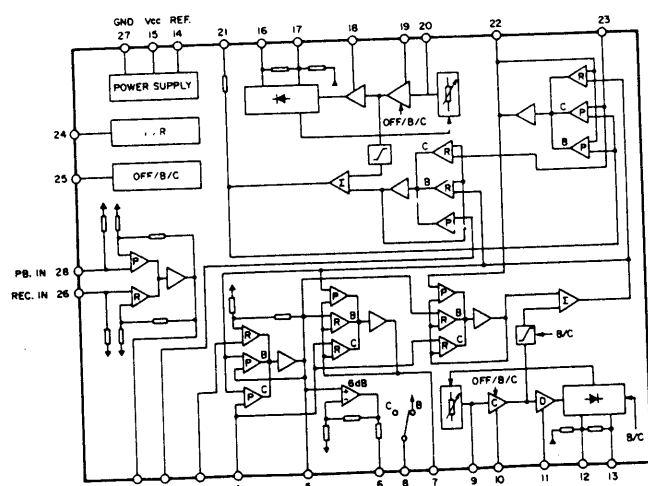
U331



U101&U102

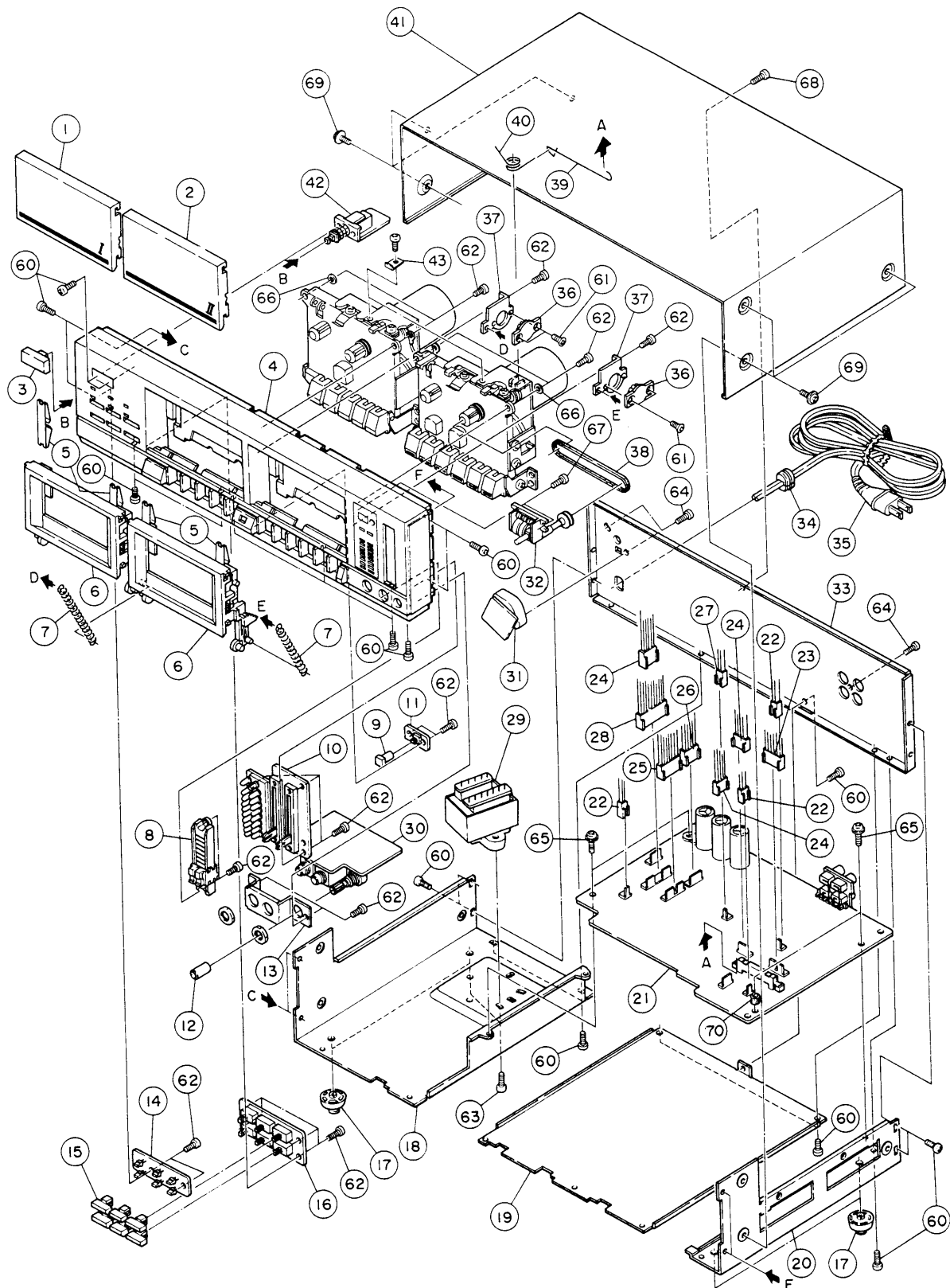


U104



6 EXPLODED VIEWS AND PARTS LIST 分解図とパーツ・リスト

EXPLODED VIEW-1

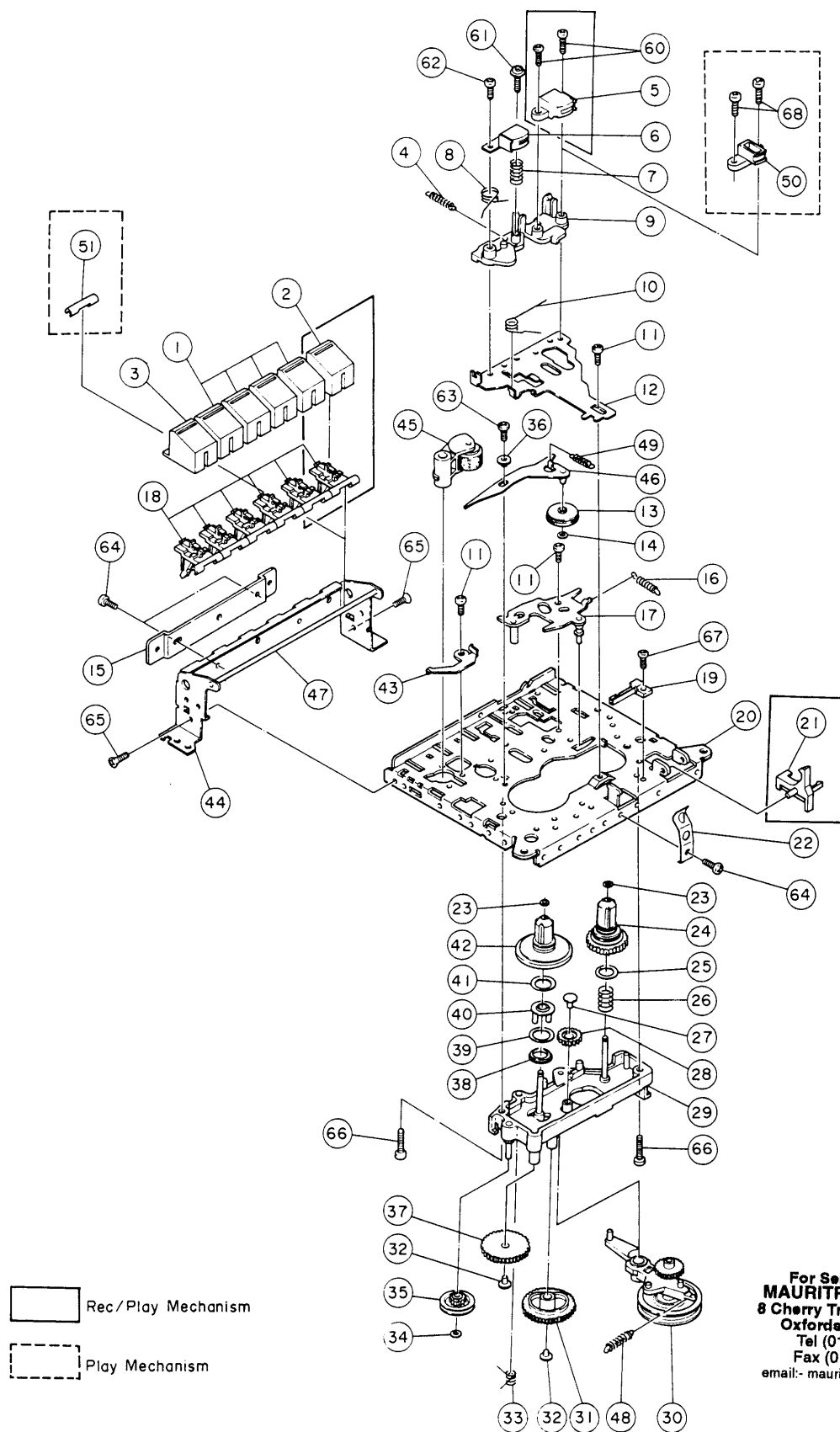


REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
1 - 1	5800644200	Cover, Cassette; A	V-330	
1 - 2	5800644300	Cover, Cassette; B		
1 - 3	5800643400	Button, Power		
1 - 4	*5800647702	Panel Assy, Front		
1 - 5	5800603800	Spring, Cassette Pressure		
1 - 6	*5800645100	Holder, Cassette		
1 - 7	*5800642901	Spring, Dumper		
1 - 8	*5800643700	Rail Assy, VR		
1 - 9	5800643600	Button, Push; B		
1 - 10	*5200162600	PCB Assy, LEVEL METER		
1 - 11	*5200163000	PCB Assy, REC MUTE		
1 - 12	5800644100	Knob, VR; C		
1 - 13	*5800642601	Holder, Jack		
1 - 14	*5200162900	PCB Assy, LED		
1 - 15	5800643501	Button, Push; A		
1 - 16	*5200162800	PCB Assy, SWITCH		
1 - 17	*5730003300	Foot		
1 - 18	*5800645201	Chassis, L Side		
1 - 19	*5800645400	Cover, Bottom		
1 - 20	*5800645301	Chassis, R Side		
1 - 21	*5200162501	PCB Assy, MAIN	V-360C	
1 - 22	*5336124200	Connector Socket, 2P		
1 - 23	*5336124600	Connector Socket, 6P		
1 - 24	*5336124400	Connector Socket, 4P		
1 - 25	*5336131700	Connector Socket, 7P [RED]		
1 - 26	*5336131400	Connector Socket, 4P [RED]		
1 - 27	*5336131200	Connector Socket, 2P [RED]		
1 - 28	*5336124800	Connector Socket, 8P		
1 - 29	△ 5320033400	Transformer, AC Power [J]		
	△ 5320033500	Transformer, AC Power [U, C]		
	△ 5320033700	Transformer, AC Power [GE]		
	△ 5320033800	Transformer, AC Power [E, UK, A]		
1 - 30	*5200162701	PCB Assy, MIC/PHONES		
1 - 31	*5200163200	PCB Assy, VOLTAGE SELECTOR [GE]		
1 - 32	5800647800	Counter Assy		
1 - 33	*5800645500	Panel, Rear		
1 - 34	△ *5317001700	Strain, Relief [C, UK]		
	△ *5534660000	Strain, Relief [All except C, UK]		
1 - 35	△ *5128027000	Cord, AC Power [J]		
	△ *5350010800	Cord, AC Power [U, GE]		
	△ *5350008200	Cord, AC Power [E]		
	△ *5128047000	Cord, AC Power [UK]		
	△ *5350008300	Cord, AC Power [A]		
	△ *5350010700	Cord, AC Power [C]		
1 - 36	*5800620500	Dumper		
1 - 37	*5800642800	Holder, Dumper		
1 - 38	5800642700	Belt, Counter		
1 - 39	*5800643000	Spring, Record; A		
1 - 40	*5800643100	Spring, Record; B		
1 - 41	*5800645600	Cover, Top		
1 - 42	*5200163100	PCB Assy, POWER SWITCH		
1 - 43	*5800685300	Stopper		
1 - 60	*5783033006	Screw, Bind Head S Tite M3 x 6		
1 - 61	*5780202004	Screw, Flat Head M2 x 4		
1 - 62	*5783603008	Screw, Bind Head P Tite M3 x 8		
1 - 63	*5783604014	Screw, Bind Head P Tite M4 x 4		
1 - 64	*5781013008	Screw, Pan Head Tapping Type 2 M3 x 8		
1 - 65	*5783073006	Screw, Pan Head Cap S Tite M3 x 6		
1 - 66	*5785003000	Washer, Flat; φ3 x φ6 x t0.5		
1 - 67	*5783602608	Screw, Bind Head P Tite M2.6 x 8		
1 - 68	*5783593008	Screw, C Tite M3 x 8		
1 - 69	*5783153005	Screw, Dia M3 x 5 [BLK Cr]		
1 - 70	*5785603016	Bush, φ3x1.6		

Parts marked with *require longer delivery time.

[U]: U.S.A.
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[J]: JAPAN

EXPLODED VIEW-2



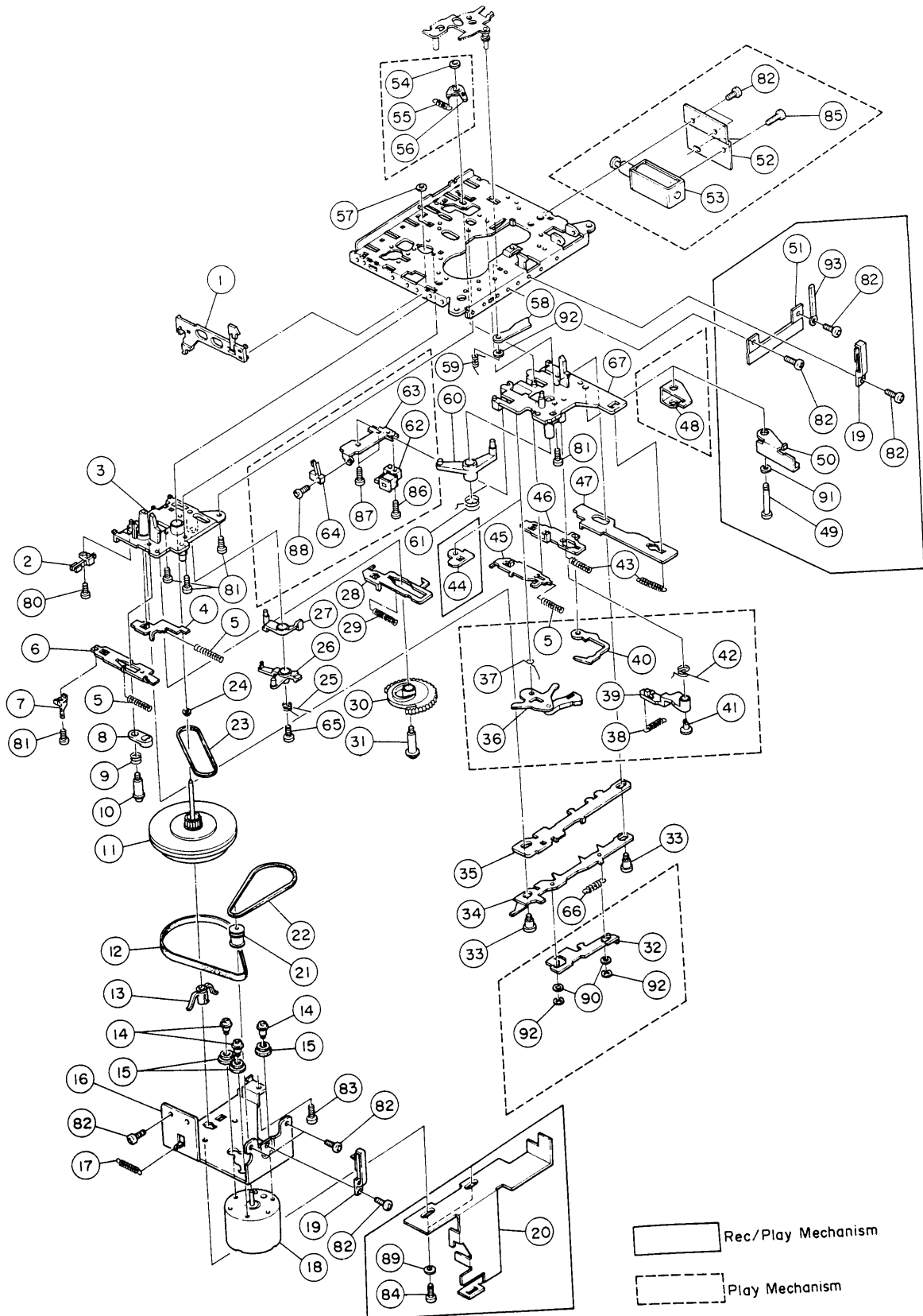
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MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- mauritron@diat.pipex.com

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
2 - 1	5800644600	Button, Control; A		
2 - 2	5800644700	Button, Control; B		
2 - 3	5800644800	Button, Control; C		
2 - 4	5760586100	Spring, Head Chassis Return	V-330	
2 - 5	5860588100	Head, Erase	V-330	
2 - 6	5378903700	Head, REC & PLAY		
2 - 7	5760585900	Spring, Head	V-330	
2 - 8	5760586000	Spring, Pinch Roller	V-330	
2 - 9	5760582500	Base, Head	V-330	
2 - 10	5760585800	Spring, Head Chassis	V-330	
2 - 11	*5760587000	Screw, A	V-330	
2 - 12	*5760581300	Chassis, Head	V-330	
2 - 13	5760584700	Idler, Play	V-330	
2 - 14	5760588300	Washer, Polyslider; $\phi 2.1 \times \phi 5 \times t0.4$		
2 - 15	*5800602601	Bracket, Mechanism Chassis	V-330	
2 - 16	*5760585100	Spring, Shift Arm; C	V-330	
2 - 17	*5760580100	Arm Assy, Shift	V-330	
2 - 18	5760583900	Lever, Button	V-330	
2 - 19	5760587400	Switch, Leaf		
2 - 20	*5760580000	Chassis	V-330	
2 - 21	*5760583400	Sensor, Rec [Rec/Play Mechanism]	V-330	
2 - 22	*5760917600	Spring, Pack		
2 - 23	5760595600	Washer, Polyslider; $\phi 1.85 \times \phi 1.85 \times \phi 3.45 \times t0.4$		
2 - 24	5760582800	Reel Assy, S	V-330	
2 - 25	5760588700	Washer, Reel	V-330	
2 - 26	5760586200	Spring, Back Tension; H	V-330	
2 - 27	5760583200	Bush		
2 - 28	5760583100	Gear, FF		
2 - 29	*5760582900	Base Assy, Reel; B		
2 - 30	5760583000	Arm Assy, Clutch		
2 - 31	5760584200	Gear, Auto Cam	V-330	
2 - 32	5760584600	Bush		
2 - 33	5760586600	Spring, Auto Sensor	V-330	
2 - 34	5760918500	Washer, $\phi 1.85 \times \phi 3.45 \times t0.25$		
2 - 35	5760584000	Pulley, Auto	V-330	
2 - 36	*5760581900	Collar	V-330	
2 - 37	5760584100	Gear, Auto	V-330	
2 - 38	5760919800	Spring, Auto Clutch [Rec/Play Mechanism]	V-330	
	5760586700	Spring, Auto Clutch [Play Mechanism]		
2 - 39	5760588800	Washer, Tefron	V-330	
2 - 40	5760584300	Clutch, Auto	V-330	
2 - 41	5760586900	Felt, Auto Clutch	V-330	
2 - 42	5760582700	Reel Assy, T	V-330	
2 - 43	*5760580300	Arm Pause	V-330	
2 - 44	*5780916900	Holder, Button; B		
2 - 45	5760582600	Arm Assy, Pinch Roller	V-330	
2 - 46	*5760580200	Arm Assy, Idler; HT	V-330	
2 - 47	*5760582000	Shaft, Button	V-330	
2 - 48	*5760620501	Spring, Clutch Arm	V-330	
2 - 49	*5760585600	Spring, Cam	V-330	
2 - 50	5760981200	Guide, Tape [Play Mechanism]		
2 - 51	5760919600	Button, Collar [Play Mechanism]		
2 - 60	*5760589100	Screw, Binding Head; M2 x 9 [Rec/Play Mechanism]		
2 - 61	*5760589200	Screw, Washer Head; M2 x 9		
2 - 62	*5780002008	Screw, Binding Head; M2 x 8		
2 - 63	*5783002005	Screw, Taptite; M2 x 5		
2 - 64	*5783002604	Screw, Taptite; M2.6 x 4		
2 - 65	*5783042605	Screw, Flat Taptite; M2.6 x 5		
2 - 66	*5760588900	Screw, Bind Taptite; M2.6 x 8		
2 - 67	*5781012006	Screw, Tapping; M2 x 6		
2 - 68	*5780002009	Screw, Binding; M2 x 9 [Play Mechanism]		

Parts marked with *require longer delivery time.

[U]: U.S.A.
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[L]: LIMITED AREA[A]: AUSTRALIA
[J]: JAPAN

EXPLODED VIEW-3



REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
3 - 1	*5760583800	Lever, Eject; F	V-330	
3 - 2	5760587500	Switch, Leaf	V-330	
3 - 3	5760582200	Holder Assy, Lever; A	V-330	
3 - 4	*5760580500	Lever, Stop	V-330	
3 - 5	*5760585300	Spring, Rew Lever	V-330	
3 - 6	*5760580400	Lever Assy, Pause; B	V-330	
3 - 7	*5760581700	Lever, Switch	V-330	
3 - 8	*5760582400	Cam, Pause	V-330	
3 - 9	*5760585700	Spring, Pause Cam	V-330	
3 - 10	*5760587200	Screw, C	V-330	
3 - 11	5760583500	Flywheel Assy, I	V-330	
3 - 12	5760917300	Belt, Drive	V-330	
3 - 13	5760583700	Holder, Capstan	V-330	
3 - 14	*5760919400	Screw, Motor	V-330	
3 - 15	*5760917400	Cushion, Motor	V-330	
3 - 16	*5760581500	Holder, Motor	V-330	
3 - 17	*5760586400	Spring, Eject Lever	V-330	
3 - 18	5760918300	Motor	V-330	
3 - 19	5760918000	Switch, Metal	V-330	
3 - 20	*5800644400	Lever, Record [Rec/Play Mechanism]	V-330	
3 - 21	5760917100	Pulley, Motor	V-330	
3 - 22	5760917200	Belt, FR	V-330	
3 - 23	5760584800	Belt, Auto	V-330	
3 - 24	5760588400	Washer, Polyslider	V-330	
3 - 25	*5760586800	Spring, Auto Lock Arm	V-330	
3 - 26	*5760584500	Arm, Auto Lock	V-330	
3 - 27	*5760584400	Arm, Auto; B	V-330	
3 - 28	*5760916200	Lever, FF; H	V-330	
3 - 29	*5760585200	Spring, FF Lever	V-330	
3 - 30	5760583300	Gear; C	V-330	
3 - 31	*5760587300	Screw, D	V-330	
3 - 32	*5760916500	Cam, Lock; S	V-330	
3 - 33	*5760587100	Screw, B	V-330	
3 - 34	*5760916700	Cam Assy, Lock; BS [Rec/Play Mechanism]	V-330	
	*5760581200	Cam Assy, Lock; B [Play Mechanism]	V-330	
3 - 35	*5760916600	Cam, Lock; C [Rec/Play Mechanism]	V-330	
	*5760581100	Cam, Lock; A [Play Mechanism]	V-330	
3 - 36	*5760916800	Arm Assy, RC [Play Mechanism]	V-330	
3 - 37	*5760919200	Spring, RC Arm [Play Mechanism]	V-330	
3 - 38	*5760919300	Spring, Solenoid Arm [Play Mechanism]	V-330	
3 - 39	*5760919500	Arm, Solenoid [Play Mechanism]	V-330	
3 - 40	*5760918700	Arm, Trigger [Play Mechanism]	V-330	
3 - 41	*5760584600	Bush [Play Mechanism]	V-330	
3 - 42	*5760919100	Spring, Trigger Arm [Play Mechanism]	V-330	
3 - 43	*5760585400	Spring, Lever	V-330	
3 - 44	*5760581800	Arm, Inter Lock [Rec/Play Mechanism]	V-330	
3 - 45	*5760916300	Lever, Rew	V-330	
3 - 46	*5760580800	Lever, Play; B [Rec/Play Mechanism]	V-330	
	*5760916400	Lever Assy, Play; S [Play Mechanism]	V-330	
3 - 47	*5760580900	Lever, Rec; C [Rec/Play Mechanism]	V-330	
	*5800642200	Lever, Daring [Play Mechanism]	V-330	
3 - 48	*5800670400	Holder, Daving; B [Play Mechanism]	V-330	
3 - 49	*5760589000	Screw, Dia [Rec/Play Mechanism]	V-330	
3 - 50	*5760581400	Arm, Rec [Rec/Play Mechanism]	V-330	
3 - 51	*5800642400	Holder, Switch [Rec/Play Mechanism]	V-330	
3 - 52	*5800642300	Holder, Solenoid	V-330	
3 - 53	5760918100	Solenoid, Daving	V-330	
3 - 54	*5760588700	Washer Reel [Play Mechanism]	V-330	
3 - 55	*5760919000	Spring, RC Lock Arm [Play Mechanism]	V-330	

Parts marked with *require longer delivery time.

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[J] : JAPAN

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
3 - 56	*5760918600	Arm Assy, RC Lock; N [Play Mechanism]	V-330	
3 - 57	*5760588600	Washer, Oil Stop		
3 - 58	*5760919700	Lever, Rec; D [Rec/Play Mechanism]		
	*5760918800	Lever, Rec; B [Play Mechanism]	V-330 V-330	
3 - 59	*5760585500	Spring, Rec Lever; B		
3 - 60	*5760583600	Arm, Lock; H		
3 - 61	*5760917500	Spring, Lock Arm	V-330	
3 - 62	5760917700	Solenoid [Play Mechanism]		
3 - 63	*5760917000	Bracket, Solenoid [Play Mechanism]		
3 - 64	5760917800	Switch, Leaf [Play Mechanism]		
3 - 65	*5760584600	Bush		
3 - 66	*5760585600	Spring, Cam		
3 - 67	*5760582300	Holder, Lever; B		
3 - 80	*5783002006	Screw, Tap Tite M2 x 6		
3 - 81	*5783002004	Screw, Tap Tite M2 x 4		
3 - 82	*5783002604	Screw, Pan Head Tap Tite M2.6 x 4		
3 - 83	*5781012606	Screw, Pan Head Tapping M2.6 x 6		
3 - 84	*5783002606	Screw, Pan Head Tap Tite M2.6 x 6		
3 - 85	*5780132600	Screw, Pan Head Sems M2.6 x 4		
3 - 86	*5783002008	Screw, Pan Head Tap Tite M2 x 8		
3 - 87	*5783002012	Screw, Pan Head Tap Tite M2 x 12		
3 - 88	*5780588900	Screw, Bind Head Tap Tite M2.6 x 8		
3 - 89	*5800642500	Collar		
3 - 90	*5760918400	Washer, Polyslider		
3 - 91	*5875002600	Washer, Plain; L		
3 - 92	*5786002000	E Ring, $\phi 2$		

Parts marked with *require longer delivery time.

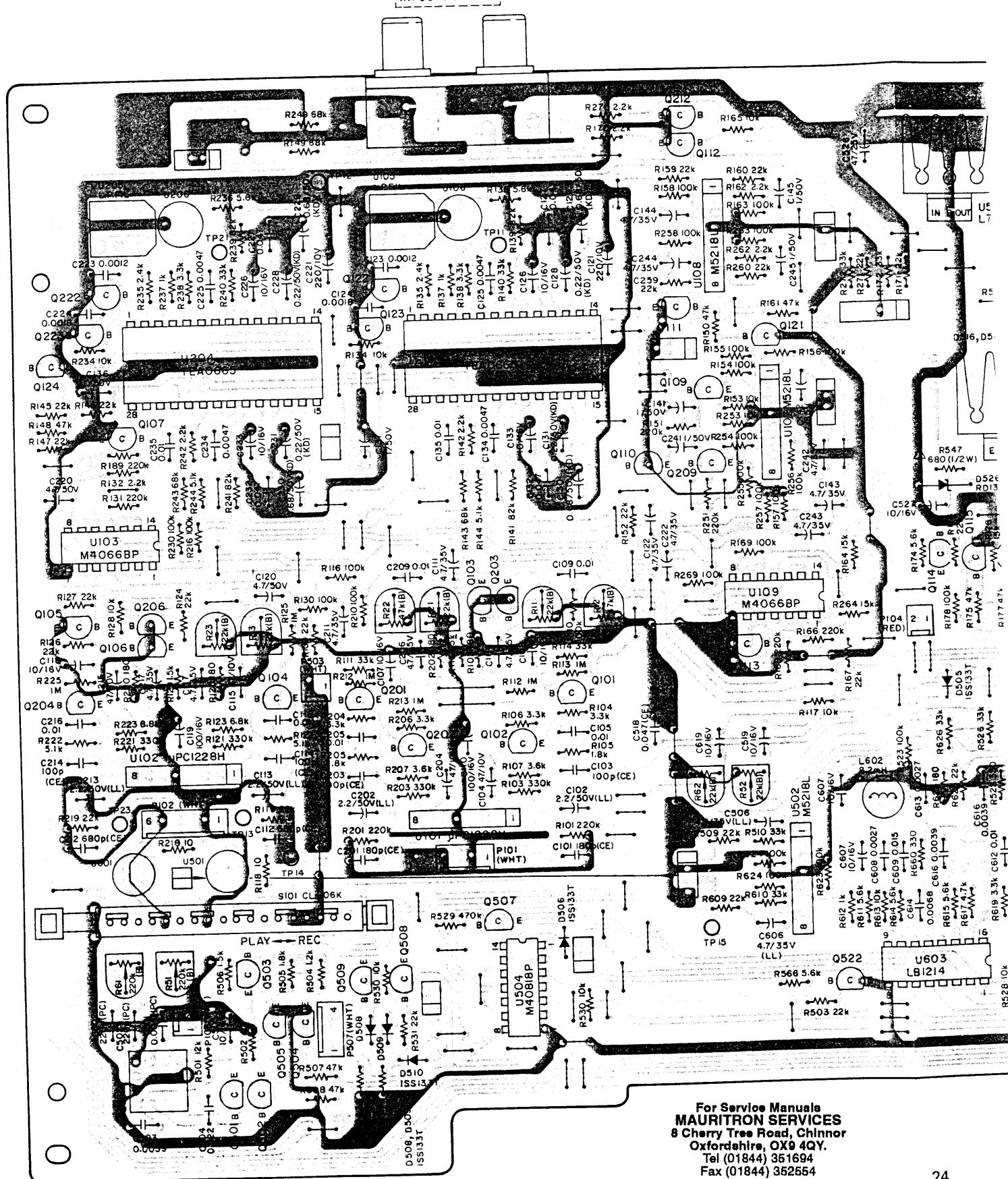
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[J]: JAPAN

7 PC BOARD AND PA

基板図とパーツ・リス

MAIN PCB ASSY

IN/OUT PUT JACK

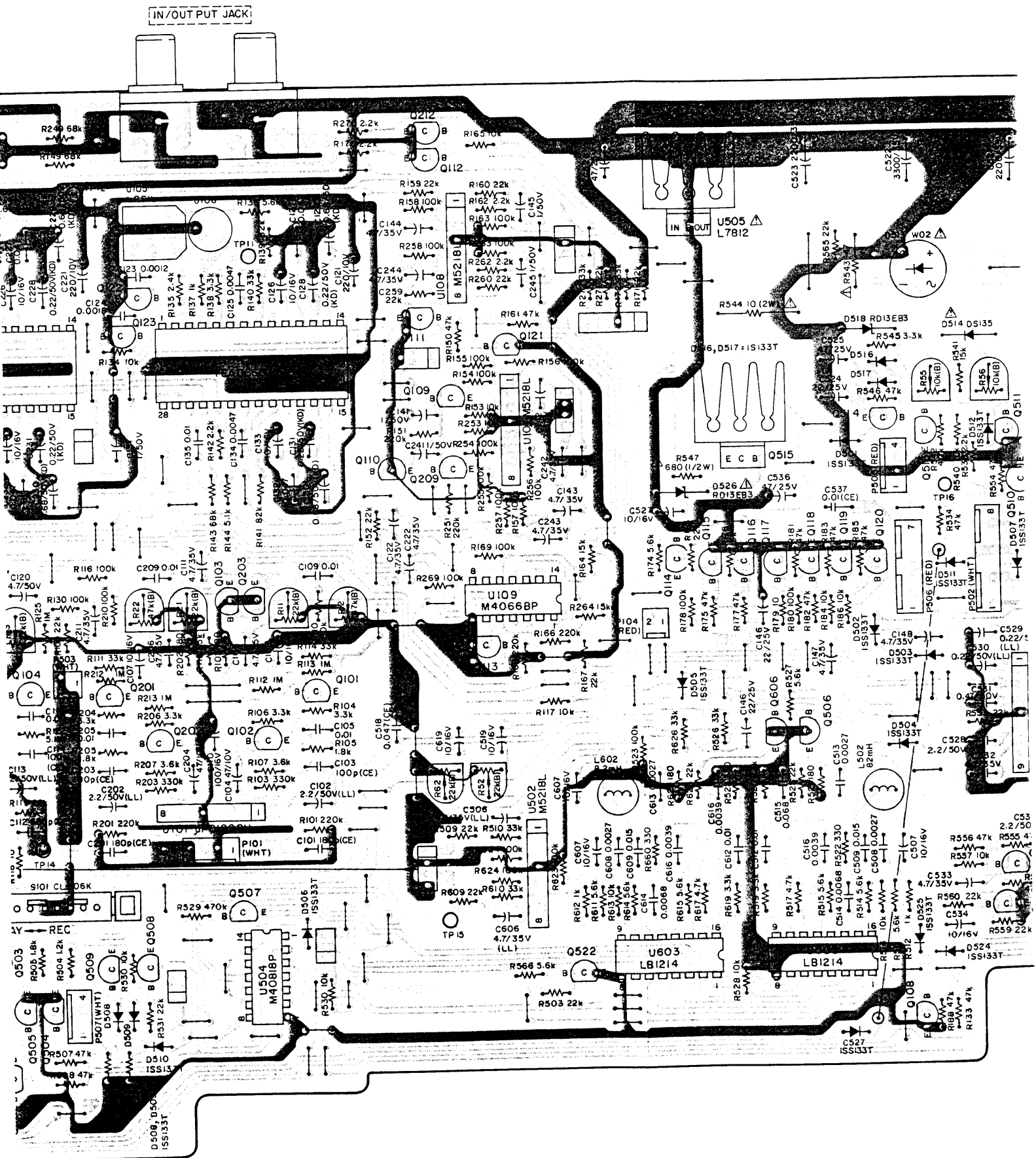


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7 PC BOARD AND PARTS LIST

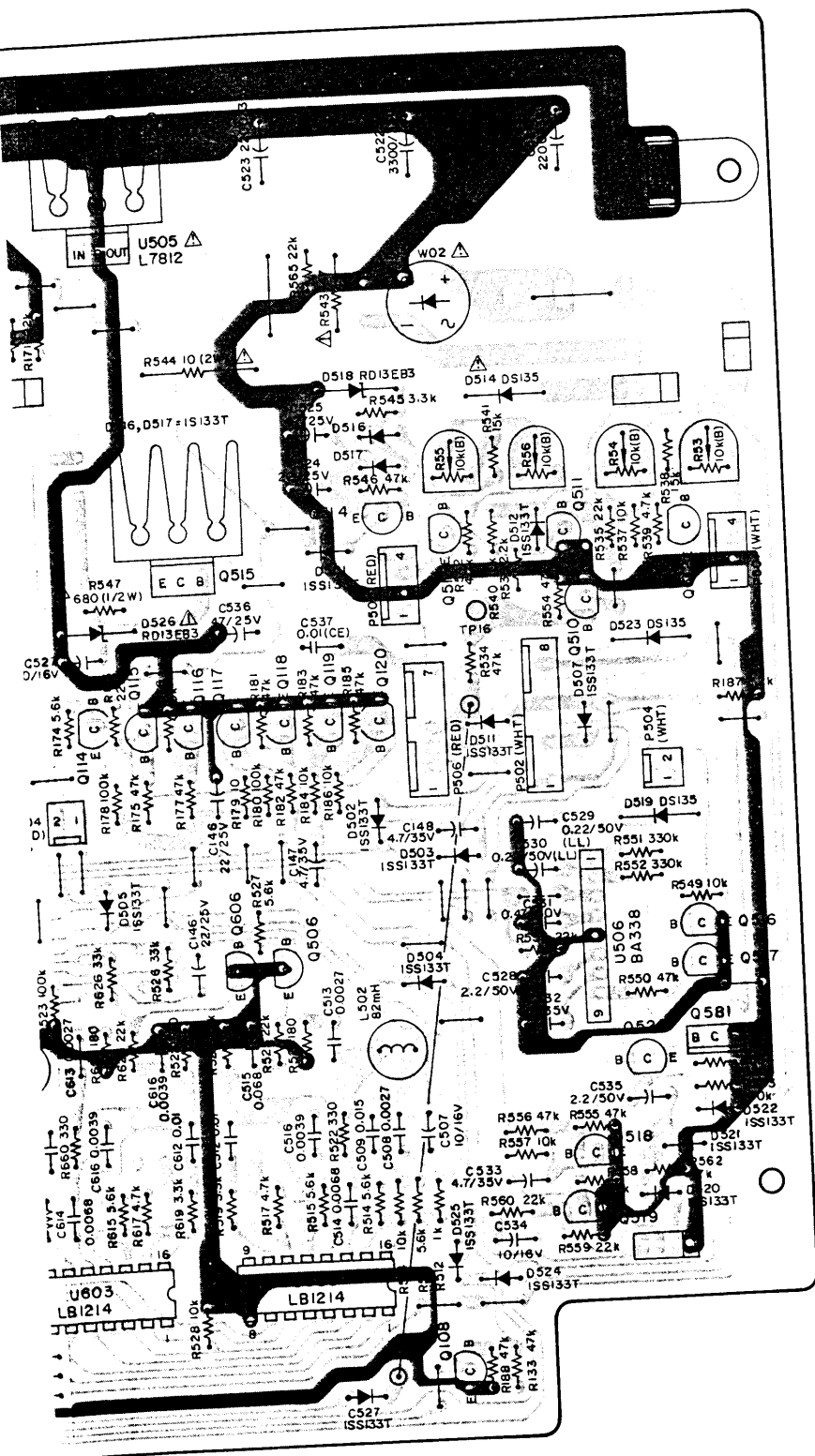
基板図とパーツ・リスト

MAIN PCB ASSY



AND PARTS LIST

パーツ・リスト



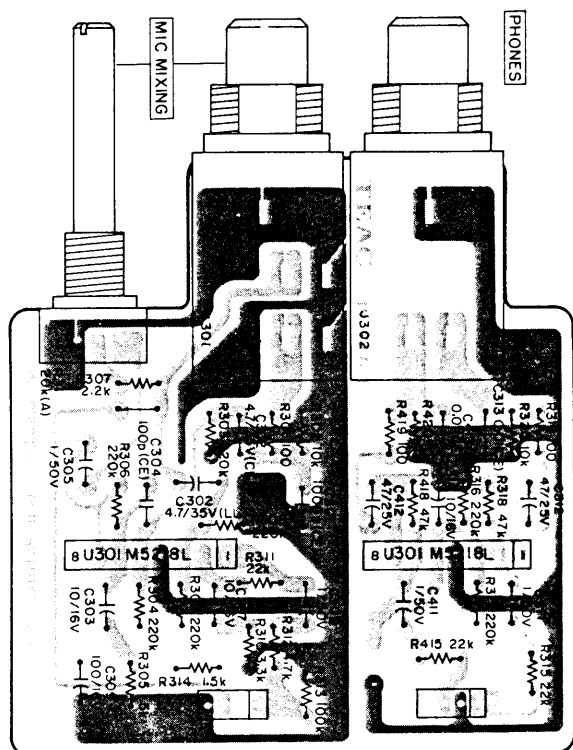
NOTES

1. PC Board shown viewed from foil side.
2. The colors used on the PCB illustrations have the following significance:
 : +B power supply circuit
 : GND
 : Other
3. Resistor values are in ohms (k = 1,000 ohms).
4. All capacitor values are in microfarads

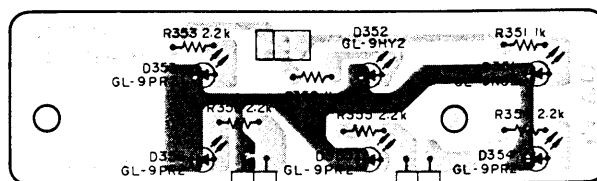
注.

1. 基板図はパターン面が示されています。
2. プリント・パターンは次のように色別されています。
 : + B 電源回路
 : GND
 : その他のパターン
3. 抵抗の単位は Ω . k = k Ω (1k Ω = 1,000 Ω).
4. コンデンサの単位は μF . p = pF

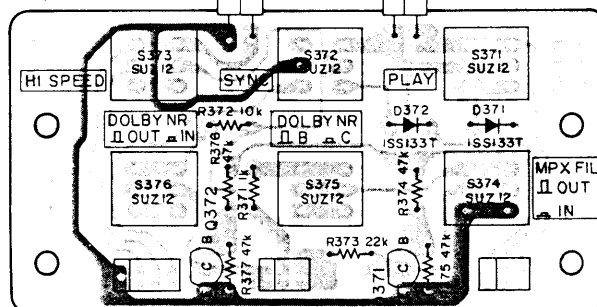
MIC/PHONES PCB ASSY



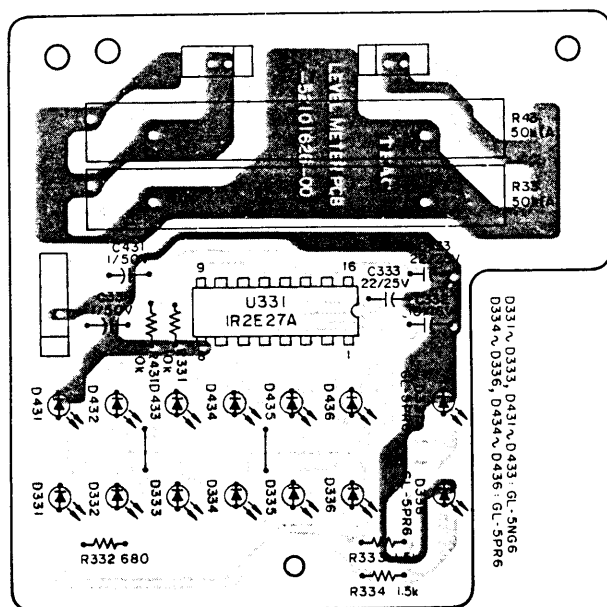
LED PCB ASSY



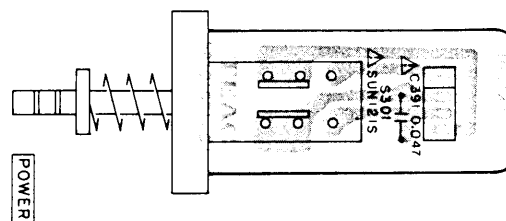
SW PCB ASSY



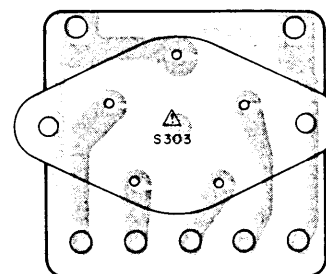
LEVEL METER PCB ASSY



POWER SW PCB ASSY



VOLTAGE SELECTOR PCB ASSY



MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200162501	PCB Assy
	*5210162501	PCB
	IC's	
U101, U102	5220426000	μPC1228H
U103	5220021600	M4066BP
U104, U204	5220423200	TEA0665
U107, U108	5220416200	M5218L
U109	5220021600	M4066BP
U502	5220416200	M5218L
U504	5220036600	M4081BP
U505	Δ 5220423400	L7812
U506	5220426100	BA338
	TRANSISTORS	
Q101, Q201	5232008400	2SK-381D, FET
Q102, Q202	5232008400	2SK-381D, FET
Q103, Q203	5230780920	2SC-2603F
Q104, Q204	5232008400	2SK-381D, FET
Q105	5230780920	2SC-2603F
Q106, Q206	5230780920	2SC-2603F
Q107, Q108	5230780920	2SC-2603F
Q109, Q209	5230780920	2SC-2603F
Q110, Q111	5230780920	2SC-2603F
Q112, Q212	5231761400	2SD-1302S
Q113	5230780920	2SC-2603F
Q114	5230018920	2SA-1115F
Q115~Q121	5230780920	2SC-2603F
Q122, Q222	5230780920	2SC-2603F
Q123, Q223	5230780920	2SC-2603F
Q124	5230780920	2SC-2603F
Q501~Q503	5230781000	2SC-1741S
Q504, Q505	5230780920	2SC-2603F
Q505, Q605	5231761400	2SD-1302S
Q507	5230780920	2SC-2603F
Q508, Q509	5230018920	2SA-1115F
Q510~Q513	5230780920	2SC-2603F
Q514	5230018920	2SA-1115F
Q515	5145087000	2SD-313E
Q516	5145082000	2SC-2060Q
Q517~Q520	5230780920	2SC-2603F
Q521	5145087000	2SD-313E
Q522	5230780920	2SC-2603F
U503, U603	5232252300	LB1214, Array
	DIODES	
D501~D512	5224015020	1SS133T-77
D513	Δ 5228005000	W02
D514	Δ 5224013210	DS135D-FA4
D516, D517	5224015020	1SS133T-77
D518	5224543501	RD13EB3, Zener
D519	5224013210	DS135D-FA4
D520~D522	5224015020	1SS133T-77
D523	5224013210	DS135D-FA4
D524, D525	5224015020	1SS133T-77
D526	Δ 5224543501	RD13EB3, Zener
D527	5224015020	1SS133T-77

REF. NO.	PARTS NO.	DESCRIPTION
	RESISTORS	
	All resistors are rated ±5% tolerance, 1/4W and of carbon type unless others noted.	
R101, R201	5240033820	220kΩ
R102, R202	5240026420	180Ω
R103, R203	5240034220	330kΩ
R104, R204	5240029420	3.3kΩ
R105, R205	5240028820	1.8kΩ
R106, R206	5240029420	3.3kΩ
R107, R207	5240029520	3.6kΩ
R109	5240031420	22kΩ
R110, R210	5240033020	100kΩ
R111	5240031820	33kΩ
R112, R212	5240035420	1MΩ
R113, R213	5240035420	1MΩ
R114	5240031820	33kΩ
R115	5240028620	1.5kΩ
R116, R216	5240033020	100kΩ
R117	5240030620	10kΩ
R118, R218	5240023420	10Ω
R119, R219	5240031420	22kΩ
R120, R220	5240026420	180Ω
R121, R221	5240034220	330kΩ
R122, R123	5240029920	5.1kΩ
R123, R223	5240030220	6.8kΩ
R124	5240031420	22kΩ
R125, R225	5240035320	1MΩ
R126	5240031820	33kΩ
R127	5240031420	22kΩ
R128	5240030620	10kΩ
R129	5240028620	1.5kΩ
R130, R230	5240033020	100kΩ
R131	5240033820	220kΩ
R132	5240029020	2.2kΩ
R133	5240032220	47kΩ
R134, R234	5240030620	10kΩ
R135, R235	5240030020	5.6kΩ
R137, R237	5240028220	1kΩ
R138, R238	5240029420	3.3kΩ
R139, R239	5240032820	82kΩ
R140, R240	5240031820	33kΩ
R141, R241	5240032820	82kΩ
R142, R242	5240029020	2.2kΩ
R143, R243	5240032620	68kΩ
R144, R244	5240029920	5.1kΩ
R145~R147	5240031420	22kΩ
R148	5240032220	47kΩ
R149, R249	5240032620	68kΩ
R150	5240032220	47kΩ
R151, R251	5240033820	220kΩ
R152	5240031420	22kΩ
R153, R253	5240033020	100kΩ
R154, R254	5240033020	100kΩ
R155, R255	5240033020	100kΩ
R156, R256	5240033020	100kΩ
R157, R257	5240033020	100kΩ
R158, R258	5240033020	100kΩ
R159, R259	5240031420	22kΩ
R160, R260	5240031420	22kΩ
R161	5240032220	47kΩ
R162, R262	5240029020	2.2kΩ
R163, R263	5240033020	100kΩ
R164, R264	5240031020	15kΩ

Parts marked with *require longer delivery time.

[U]: U.S.A.
[E]: EUROPE

[C]: CANADA
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REF. NO.	PARTS NO.	DESCRIPTION
R165	5240030620	10k Ω
R166	5240033820	220kM Ω
R167	5240031420	22k Ω
R168	5240033820	220k Ω
R169, R269	5240033020	100k Ω
R170, R270	5240029020	2.2k Ω
R171, R271	5240031420	22k Ω
R172, R272	5240031820	33k Ω
R173	5240031420	22k Ω
R174	5240030020	5.6k Ω
R175	5240032220	47k Ω
R176	5240031020	15k Ω
R177	5240032220	47k Ω
R178	5240033020	100k Ω
R179	5240023420	10 Ω
R180	5240033020	100k Ω
R181~R183	5240032220	47k Ω
R184	5240030620	10k Ω
R185	5240032220	47k Ω
R186	5240030620	10k Ω
R187	5240029020	2.2k Ω
R188	5240032220	47k Ω
R189	5240033820	220k Ω
R501	5240030820	12k Ω
R502	5240022620	4.7 Ω
R503	5240031420	22k Ω
R504	5240028420	1.2k Ω
R505	5240028820	1.8k Ω
R506	5240028620	1.5k Ω
R507	5240032220	47k Ω
R508	5240032220	47k Ω
R509, R609	5240032220	47k Ω
R510, R610	5240031820	33k Ω
R511, R611	5240030020	5.6k Ω
R512, R612	5240028220	1k Ω
R513, R613	5240030620	10k Ω
R514, R614	5240030020	5.6k Ω
R515, R615	5240030020	5.6k Ω
R517, R617	5240029820	4.7k Ω
R519, R619	5240029420	3.3k Ω
R520, R620	5240029220	2.7k Ω
R521, R621	5240026420	180 Ω
R522, R622	5240027020	330 Ω
R523, R623	5240033020	100k Ω
R524, R624	5240033020	100k Ω
R525, T625	5240031420	22k Ω
R526, R626	5240031820	33k Ω
R527	5240030020	5.6k Ω
R528	5240030620	10k Ω
R529	5240034620	470k Ω
R530	5240030620	10k Ω
R531	5240031420	22k Ω
R532	5240032220	47k Ω
R533	5240031420	22k Ω
R534	5240032220	47k Ω
R535	5240031420	22k Ω
R536	5240029020	2.2k Ω
R537	5240030620	10k Ω
R538	5240031020	15k Ω
R539	5240029820	4.7k Ω
R540	5240030620	10k Ω
R541	5240031020	15k Ω
R542	5240029820	4.7k Ω
R543	Δ 5183570000	47 Ω , Nonflammable
R544	Δ 5241220510	10 Ω 2W, Metal Film

Parts marked with *require longer delivery time.

[U]: U.S.A.
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REF. NO.	PARTS NO.	DESCRIPTION
R545	5240029420	3.3k Ω
R546	5240032220	47k Ω
R547	Δ 5180078000	680 Ω ½W
R549	5240030620	10k Ω
R550	5240032220	47k Ω
R551	5240034220	330k Ω
R552	5240034220	330k Ω
R553	5240031420	22k Ω
R554~R556	5240032220	47k Ω
R557	5240030620	10k Ω
R558	5240032220	47k Ω
R559	5240031420	22k Ω
R560	5240031420	22k Ω
R561	5240029820	4.7k Ω
R562	5240032220	47k Ω
R563	5240033020	100k Ω
R564	5240027820	680 Ω
R565	5240031420	22k Ω
R566	5240030020	5.6k Ω
CAPACITORS		
C101, C102	5172215000	Ceramic 180pF 50V
C102, C202	5260221350	Elec. 2.2 μ F 50V
C103, C203	5172212000	Ceramic 100pF 50V
C104, C204	5260165052	Elec. 47 μ F 16V
C105, C205	5263166723	Metalized 0.01 μ F 50V
C106, C206	5260162050	Elec. 4.7 μ F 35V
C107	5260162550	Elec. 10 μ F 16V
C108	5260162550	Elec. 10 μ F 16V
C109, C209	5263166723	Metalized 0.01 μ F 50V
C110	5260166052	Elec. 100 μ F 16V
C111, C211	5260162050	Elec. 4.7 μ F 35V
C112, C212	5172222000	Ceramic 680pF 50V
C113, C213	5260221350	Elec. 2.2 μ F 50V
C114, C214	5172212000	Ceramic 100pF 50V
C115, C215	5260165052	Elec. 47 μ F 10V
C116, C216	5263166723	Metalized 0.01 μ F 50V
C117, C217	5260162050	Elec. 4.7 μ F 35V
C118	5260162550	Elec. 10 μ F 16V
C119	5260116652	Elec. 100 μ F 16V
C120, C220	5260162050	Elec. 4.7 μ F 35V
C121, C221	5260166852	Elec. 220 μ F 10V
C122, C222	5260162050	Elec. 4.7 μ F 35V
C123, C223	5170354000	Mylar 0.0012 μ F 100V
C124, C224	5170358000	Mylar 0.0018 μ F 100V
C125, C225	5170368000	Mylar 0.0047 μ F 100V
C126, C226	5260162550	Elec. 10 μ F 16V
C127, C227	5263167523	Metalized 0.047 μ F 50V
C128, C228	5260225712	Elec. 0.22 μ F 50V
C129, C229	5260226012	Elec. 0.68 μ F 50V
C130, C230	5260226012	Elec. 0.68 μ F 50V
C131, C231	5260225712	Elec. 0.22 μ F 50V
C132, C232	5263167523	Metalized 0.047 μ F 50V
C133, C233	5260162550	Elec. 10 μ F 16V
C134, C234	5170368000	Mylar 0.0057 μ F 100V
C135, C235	5263166723	Metalized 0.01 μ F 50V
C136	5260160750	Elec. 1 μ F 50V
C137	5260160750	Elec. 1 μ F 50V
C141, C241	5260160750	Elec. 1 μ F 50V
C142, C242	5260162050	Elec. 4.7 μ F 35V
C143, C243	5260162050	Elec. 4.7 μ F 35V

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REF.NO	PARTS NO.	DESCRIPTION
C144, C244	5260162050	Elec. 4.7μF 35V
C145, C245	5260160750	Elec. 1μF 50V
C146	5260163452	Elec. 22μF 25V
C147	5260162050	Elec. 4.7μF 35V
C148	5260162050	Elec. 4.7μF 35V
C501	5263102120	Polyst. 0.0047μF 100V
C502, C602	5263106220	Polyst. 220pF 100V
C503	5170366000	Mylar 0.0039μF 100V
C504	5263167123	Metalized 0.022μF 50V
C505	5260165252	Elec. 47μF 25V
C506, C606	5260221550	Elec. 4.7μF 35V
C507, C607	5260162550	Elec. 10μF 16V
C508, C608	5170362000	Mylar 0.0027μF 100V
C509, C609	5263166923	Metalized 0.015μF 50V
C512, C612	5170352000	Mylar 0.001μF 100V
C513, C613	5170362000	Mylar 0.0027μF 100V
C514, C614	5170372000	Mylar 0.0068μF 100V
C515, C615	5263167723	Metalized 0.068μF 50V
C516, C616	5170366000	Mylar 0.0039μF 100V
C517, C617	5260162550	Elec. 10μF 16V
C518	5173435000	Ceramic 0.047μF 50V
C519, C619	5260162550	Elec. 10μF 16V
C521	Δ 5173090000	Elec. 2200μF 35V
C522	Δ 5260272310	Elec. 3300μF 35V
C523	Δ 5173090000	Elec. 2200μF 35V
C524	5260163452	Elec. 22μF 25V
C525	5260165250	Elec. 47μF 25V
C526	5260165250	Elec. 47μF 25V
C527	5260162550	Elec. 10μF 16V
C528	5260161150	Elec. 2.2μF 50V
C529	5260220750	Elec. 0.22μF 50V
C530	5260220750	Elec. 0.22μF 50V
C531	5260160550	Elec. 0.47μF 50V
C532	5260162050	Elec. 4.7μF 35V
C533	5260162050	Elec. 4.7μF 35V
C534	5260162550	Elec. 10μF 16V
C535	5260161150	Elec. 2.2μF 50V
C536	5260165252	Elec. 47μF 25V
C537	5173433000	Ceramic 0.01μF 50V
VARIABLE RESISTORS		
R011, R021	5280021500	Semi-fixed 22kΩ (B)
R012, R022	5280021700	Semi-fixed 47kΩ (B)
R014, R023	5280021500	Semi-fixed 22kΩ (B)
R051, R061	5280022100	Semi-fixed 220kΩ (B)
R052, R062	5280021500	Semi-fixed 22kΩ (B)
R053~R056	5280021300	Semi-fixed 10kΩ (B)
CONNECTOR PLUGS		
P101	5336126400	4P (WHT)
P102	5336126600	6P (WHT)
P103	5336126200	2P (WHT)
P104	5336135200	2P (RED)
P501	5336126400	4P (WHT)
P502	5336126800	8P (WHT)
P503	5336126200	2P (WHT)
P504	5336126200	2P (WHT)
P505	5336135400	4P (RED)
P506	5336135700	7P (RED)
P507	5336126400	4P (RED)
MISCELLANEOUS		
U105, U205	5292802600	Low Pass Filter
U106, U206	5292805200	Low Pass Filter, 19.8kHz
U501, U601	5292805900	Low Pass Filter, 100kHz

REF. NO.	PARTS NO.	DESCRIPTION
L501	5286023800	Coil, OSC
L502, L602	5286008700	Coil, Choke; 8.2mH
S101	5300911500	Switch, Slide
TP11, TP21	5544750000	Pin
TP12	5544750000	Pin
TP13, TP23	5544750000	Pin
TP14	5544750000	Pin
	5330509600	Jack, Pin; 4P
	5553132000	Heatsink
	5555590000	Plate, Eath; A
	5783033060	Screw, Bind Head S tite M3x6

MIC/PHONES PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200162701	PCB Assy
	*5210162700	PCB
IC's		
U301, U302	5220416200	M5218L
CARBON RESISTORS		
All resistors are rated ±5% tolerance and ¼W.		
R301	5240025820	100Ω
R302	5240030620	10kΩ
R303, R304	5240033820	220kΩ
R305	5240028620	1.5kΩ
R306	5240033820	220kΩ
R307	5240029020	2.2kΩ
R308, R309	5240033820	220kΩ
R310	5240029420	3.3kΩ
R311	5240031420	22kΩ
R312	5240029820	4.7kΩ
R313	5240033020	100kΩ
R314	5240028620	1.5kΩ
R315, R415	5240031420	22kΩ
R316	5240033820	220kΩ
R317	5240033820	220kΩ
R318, R418	5240032220	47kΩ
R319, R419	5240025820	100Ω
R320, R420	5240030620	10kΩ
CAPACITORS		
C301	5172224000	Ceramic 0.001μF 50V
C302	5260221550	Elec. 4.7μF 35V
C303	5260162550	Elec. 10μF 16V
C304	5172212000	Ceramic 100pF 50V
C305	5260160750	Elec. 1μF 50V
C306	5260162050	Elec. 4.7μF 35V
C307	5260162550	Elec. 10μF 16V
C308	5260160750	Elec. 1μF 50V
C309	5260166050	Elec. 100μF 16V
C311, C411	5260160750	Elec. 1μF 50V
C312, C412	5260165250	Elec. 47μF 25V
C313, C413	5173433000	Ceramic 0.01μF 50V
C314	5260162500	Elec. 10μF 16V
VARIABLE RESISTORS		
R031	5282013900	Semi-fixed 20kΩ (A)
MISCELLANEOUS		
J301	5330011000	Jack, Phones
J302	5330011100	Jack, Mic
	5800642601	Holder, Jack

Parts marked with *require longer delivery time.

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LEVEL METER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200162600	PCB Assy
	*5210162600	PCB
	IC	
U331	5220036300	IR2E27A
	LED's	
D331, D431	5225013400	GL-5NG6 (GRN)
D332, D432	5225013400	GL-5NG6 (GRN)
D333, D433	5225013400	GL-5NG6 (GRN)
D334, D434	5225010300	GL-5PR6 (RED)
D335, D435	5225010300	GL-5PR6 (RED)
D336, D436	5225010300	GL-5PR6 (RED)
D337	5225010300	GL-5PR6 (RED)
D338	5225010300	GL-5PR6 (RED)
	CARBON RESISTORS	
R331, R431	5240030620	10k Ω $\pm$ 5% $\frac{1}{4}$ W
R332	5240027820	680 Ω $\pm$ 5% $\frac{1}{4}$ W
R333, R334	5240028620	1.5k Ω $\pm$ 5% $\frac{1}{4}$ W
	CAPACITORS	
C331, C431	5260160750	Elec. 1 μ F 50V
C332	5260162550	Elec. 10 μ F 16V
C333, C433	5260163452	Elec. 22 μ F 25V
	VARIABLE RESISTORS	
R033, R043	5284009200	Slide Volume 50k Ω (A)
	MISCELLANEOUS	
	5800645900	Spacer, LED

SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200162800	PCB Assy
	*5210162800	PCB
	TRANSISTORS	
Q371, Q372	5230780900	2SC-2603F
	DIODES	
D371, D372	5224015020	1SS133T-77
	CARBON RESISTORS	
R371	5240028220	1k Ω
R372	5240030620	10k Ω
R373	5240031420	22k Ω
R374~R377	5240032220	47k Ω
	SWITCHES	
S371~S376	5300039700	Push, SUZ12

POWER SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200163100	PCB Assy
	*5210163100	PCB
C391	Δ 5173435000	Ceramic Cap. 0.047 μ F 50V
S301	Δ 5300037200	Switch, Push; SUN121S

VOLTAGE SELECTOR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200163200	PCB Assy
	*5210163200	PCB
S303	Δ 5302101700	Switch, Voltage Selector

LED PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*5200162900	PCB Assy
	*5210162900	PCB
	LED's	
D351	5225007100	GL-9NG2, (GRN)
D352	5225010600	GL-9HY2, (YEL)
D353~D356	5225007900	GL-9PR2, (RED)
	CARBON RESISTORS	
R351, R352	5240028220	1k Ω $\pm$ 5% $\frac{1}{4}$ W
R353~R356	5240029020	2.2k Ω $\pm$ 5% $\frac{1}{4}$ W

REC MUTE PCB ASSY (PC Board omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	*5200163000	PCB Assy
	*5210163000	PCB
S302	5302102800	Switch, Tact

Parts marked with *require longer delivery time.

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TEAC SCHEMATIC DIAGRAM W-440C

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3

4

A

MAIN PCB

U101	IPC1228H	Q101, (Q201)	2SK3810
U102	IPC1228H	Q102, (Q202)	2SK3810
U103	M4066BP	Q103, (Q203)	2SC2603F
U104, (U204)	TEA0665	Q104, (Q204)	2SK3810
U105, (U205)	L.P.F.	Q105, (Q205)	2SC2603F
U106, (U206)	S.P.F.	Q106, (Q206)	2SC2603F
U107	M5218L	Q107, (Q207)	2SC2603F
U108	M5218L	Q108, (Q208)	2SC2603F
U109	M4066BP	Q109, (Q209)	2SC2603F
U110		Q110, (Q210)	2SC2603F
U501, (U601)	BIAS TRAP	Q111	2SC2603F
U502	M5218L	Q112, (Q212)	2SD1302S
U503, (U603)	LB121A	Q113, (Q213)	2SC2603F
U504	M40818P	Q114	2SA1115F
U505	L7812	Q115 ~ Q121	2SC2603F
U506	8433B	Q122, (Q222)	2SC2603F
		Q123, (Q223)	2SC2603F
		Q124, (Q224)	2SC2603F
D501 ~ D510	ISS133T	Q501 ~ Q503	2SC17410
D511, D512	(Not used)	Q504, Q505	2SC2603F
D513	W02	Q506	2SD1302F
D514	D515	Q507	2SC2603F
D516, D517	ISS133T	Q508, Q509	2SA1115F
D518	RD15E83	Q510 ~ Q513	(Not used)
D519	D5135	Q514	2SA1115F
D520 ~ D522	ISS133T	Q515	2SD1313E
D523	D5135	Q516	2SC2603F
D524, D525	ISS133T	Q517 ~ Q522	2SC2603F
D526	RD13E83		
D527	ISS133T		

(DECK I)
PLAY HEAD

(DECK I)
EQ

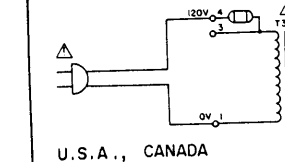
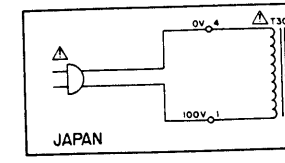
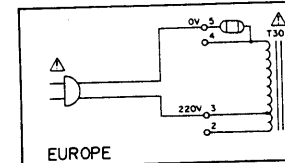
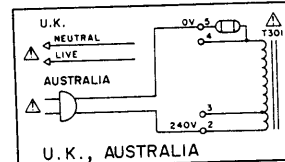
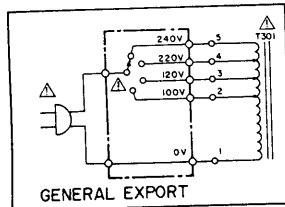
(DECK II)
REC/PLAY HEAD

(-9.0B)
LINE IN

MAIN PCB

B

C



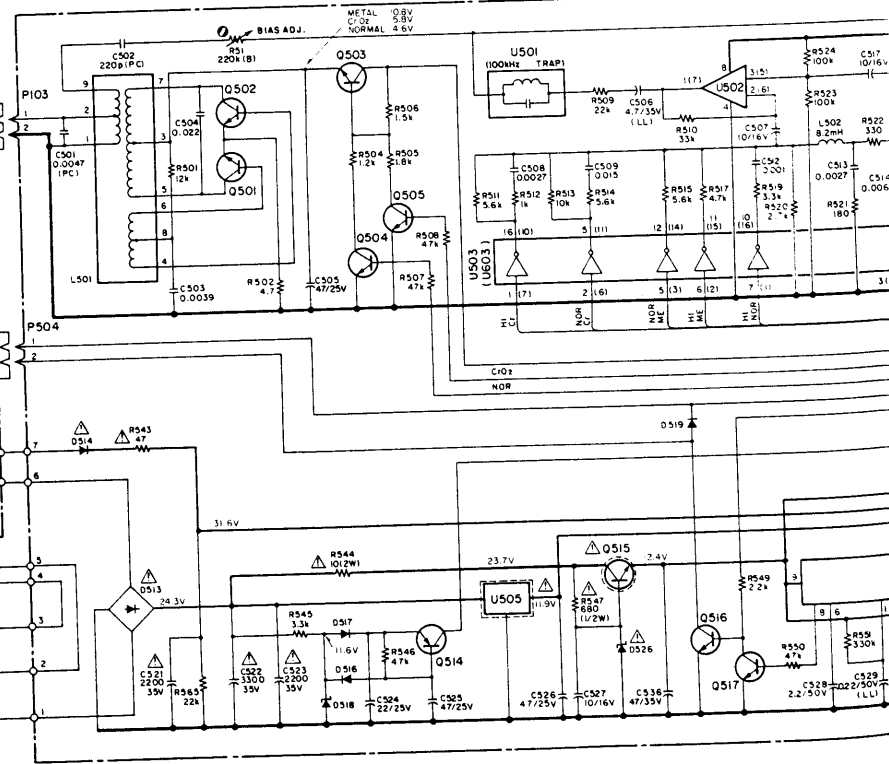
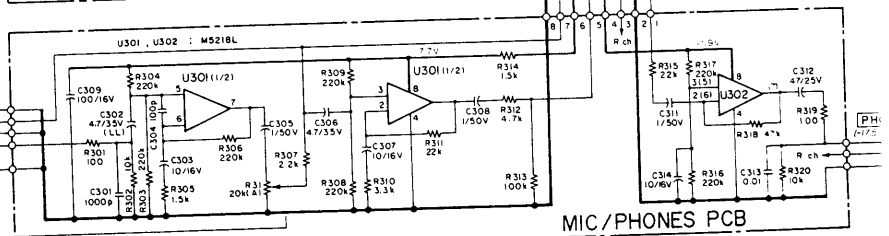
D

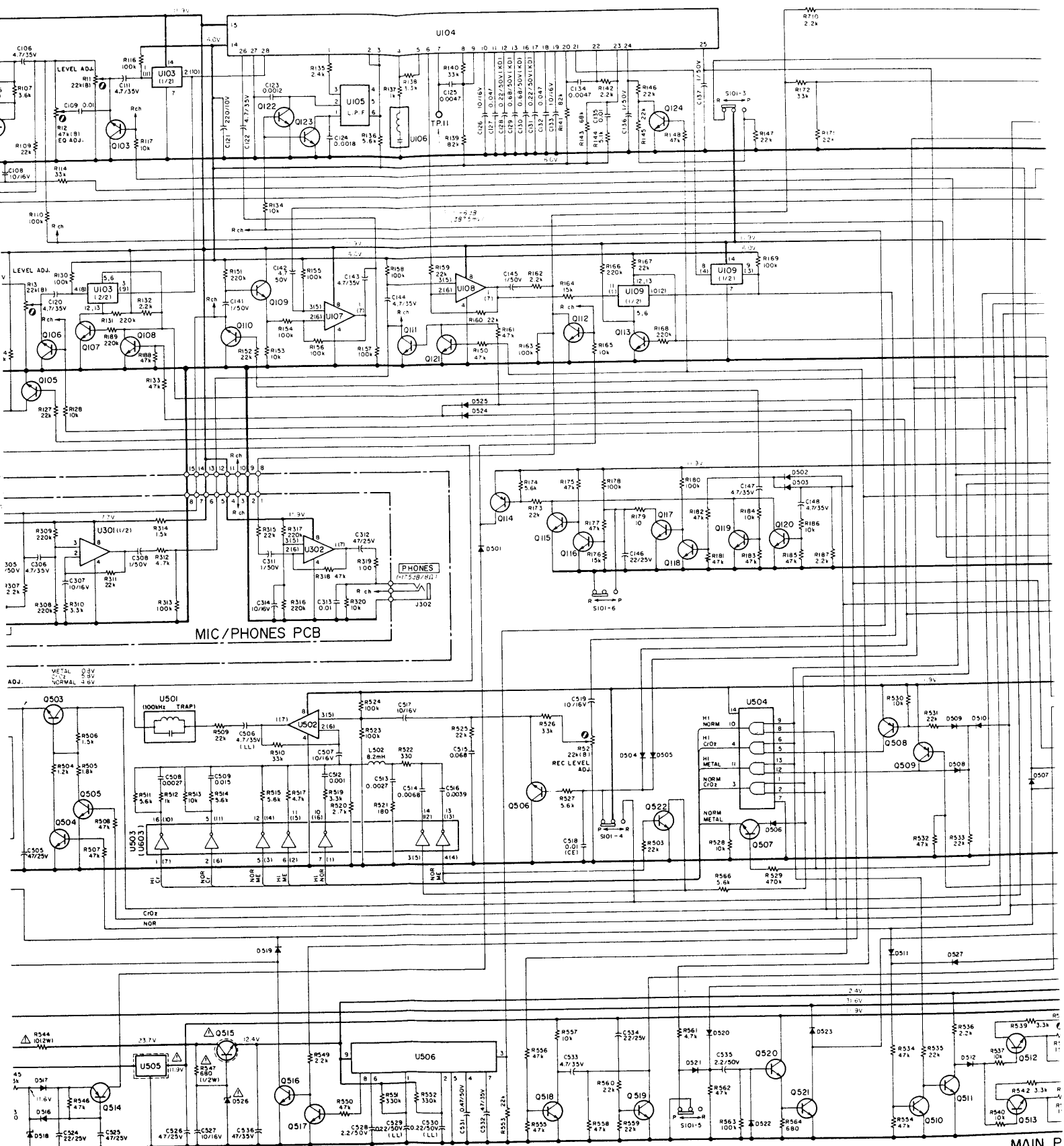
E

ERASE HEAD

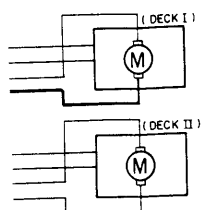
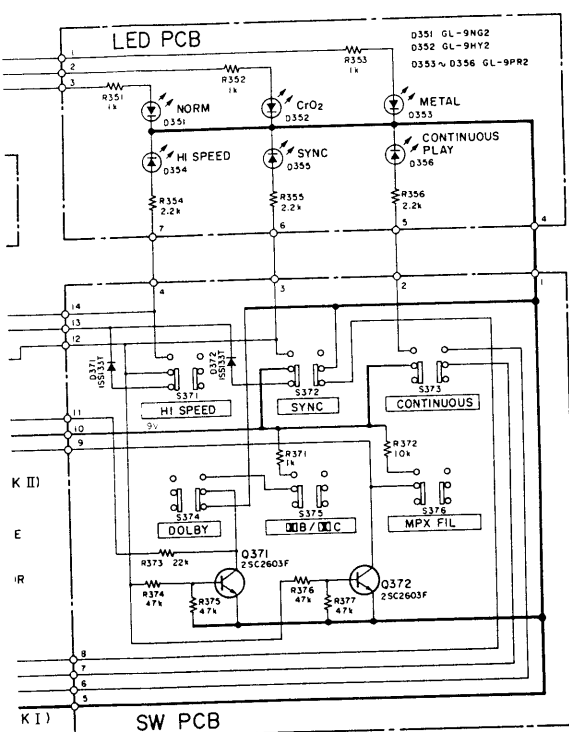
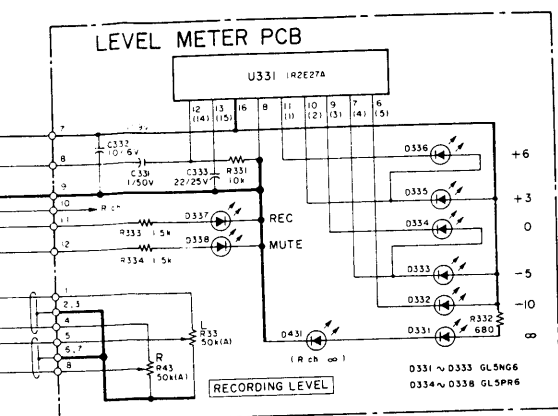
SKIP SOL.

POWER









INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

1. Schematic diagram shown for left channel except for some of the components.
2. All resistors are $\frac{1}{4}$ watt, $\pm 5\%$, unless marked otherwise. Resistor values are in ohms ($k = 1,000$ ohms).
3. All capacitor values are in microfarads ($p =$ picofarads). (CE) = Ceramic. All non-polarized capacitors are $\pm 5\%$ mylar unless otherwise specified.
4. $\uparrow$ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the TEAC parts list and ensure exact replacement.
5. Voltage and level values are for reference only. $0dB = 0.775V$. Indicated values are those existing when the peak level meter indicates $0dB$. Each Voltage value shown above is the one measured in REC PAUSE position and each mode.
6. : front panel indication
7. : rear panel indication
8. : +B power supply circuit

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W-440C

Stereo Double Cassette Deck

2nd Issue; December, 1984